

FIG. 1

2/85

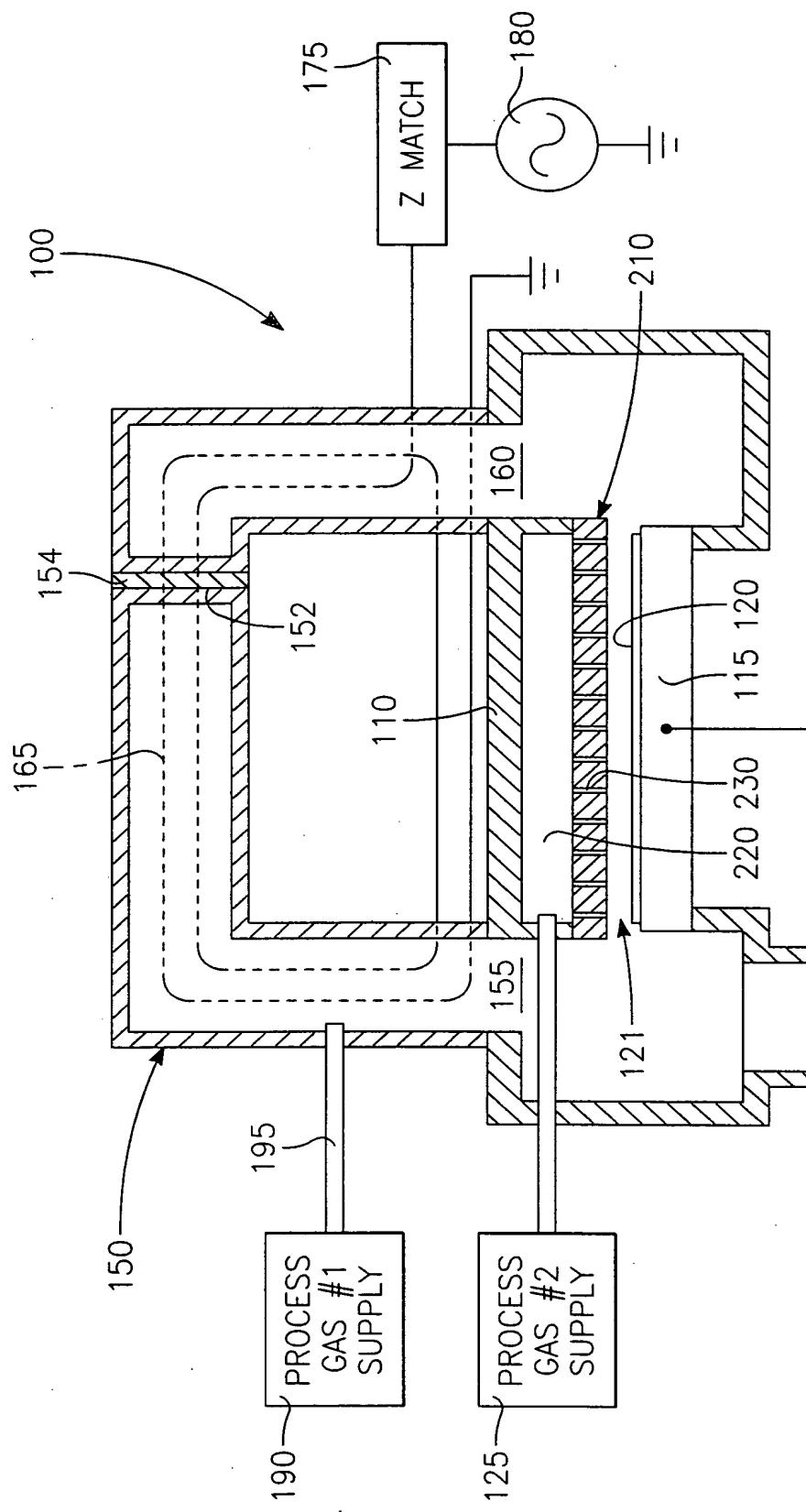
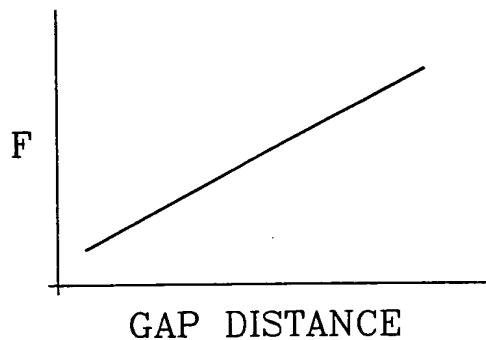


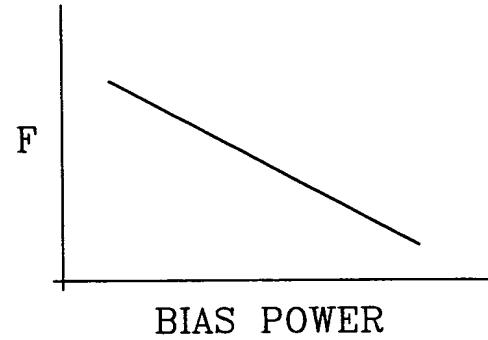
FIG. 2

3/85



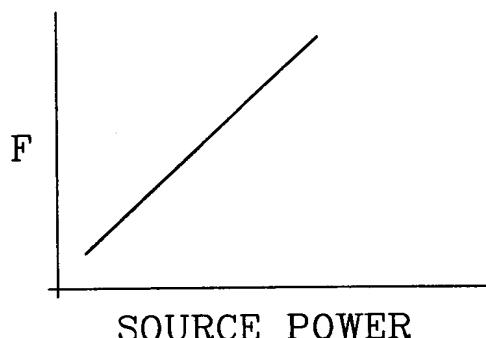
GAP DISTANCE

*FIG. 3*



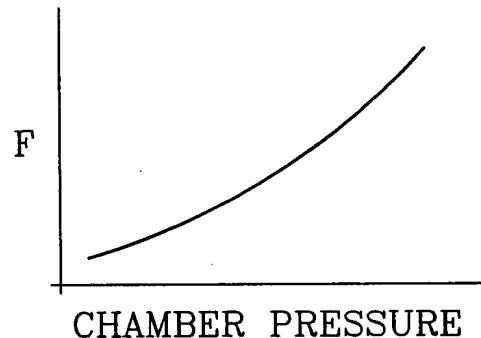
BIAS POWER

*FIG. 4*



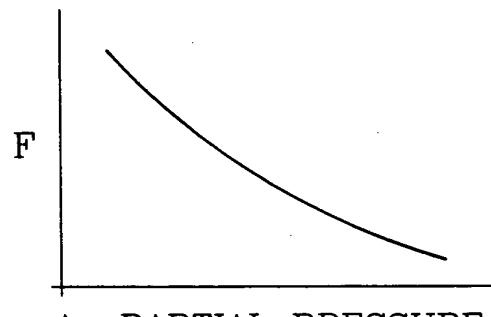
SOURCE POWER

*FIG. 5*



CHAMBER PRESSURE

*FIG. 6*



Ar PARTIAL PRESSURE

*FIG. 7*

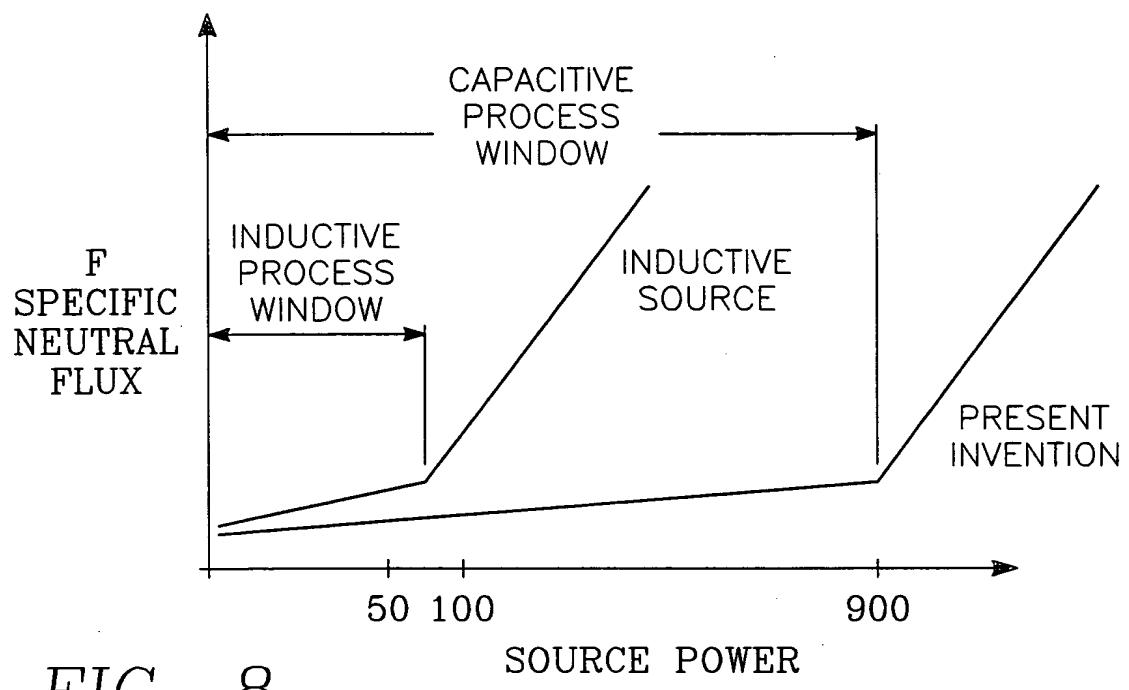


FIG. 8

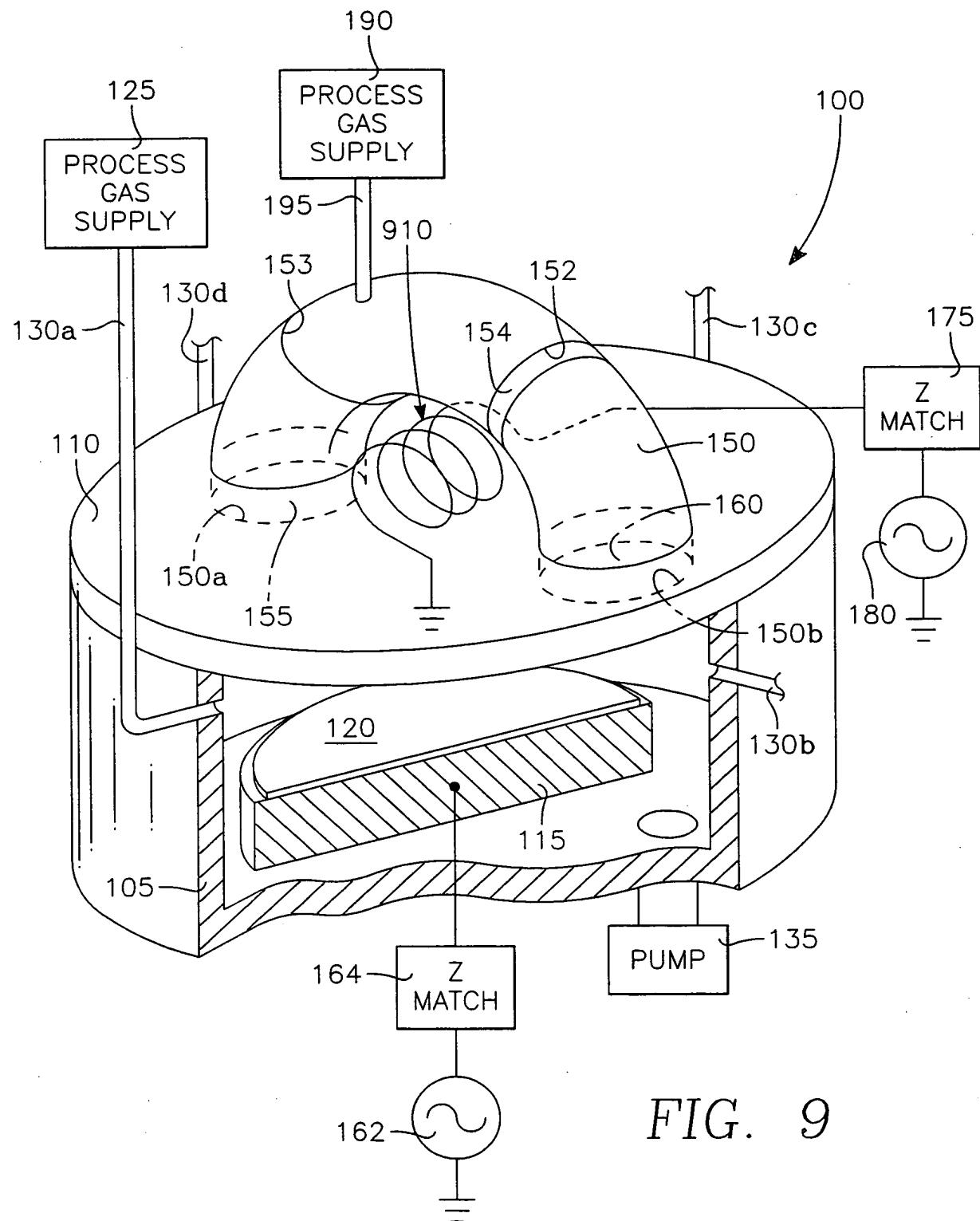


FIG. 9

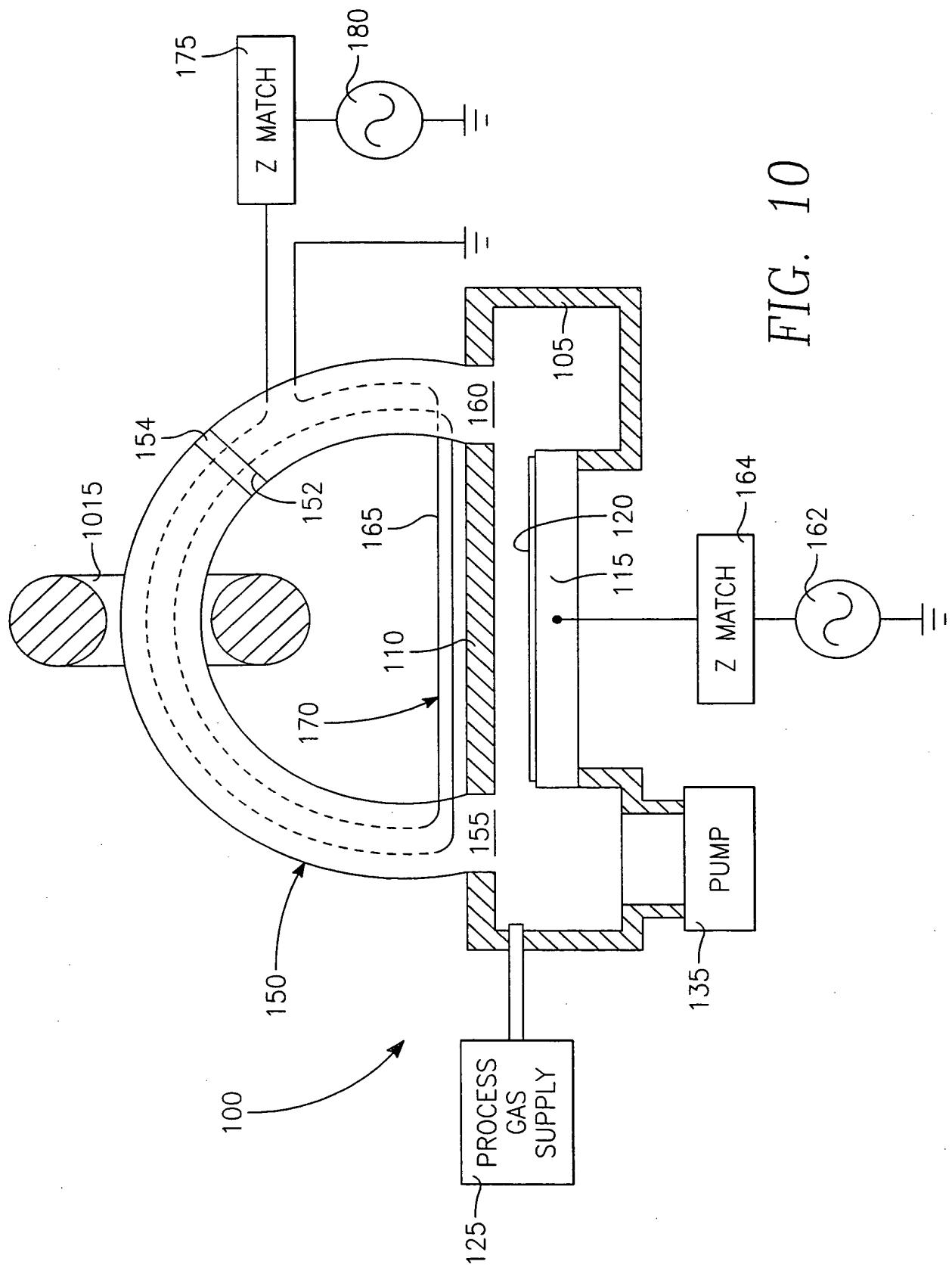


FIG. 10

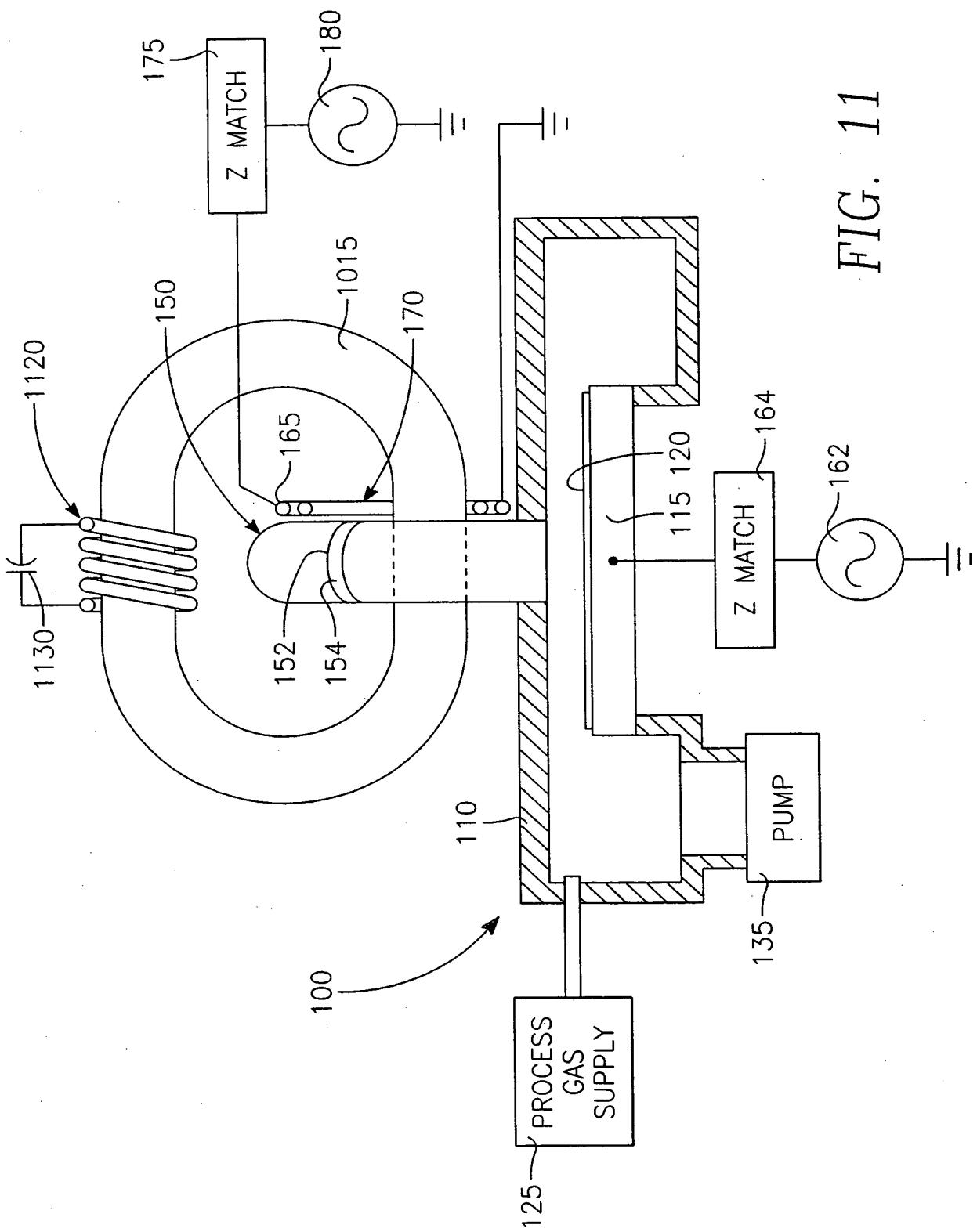


FIG. 11

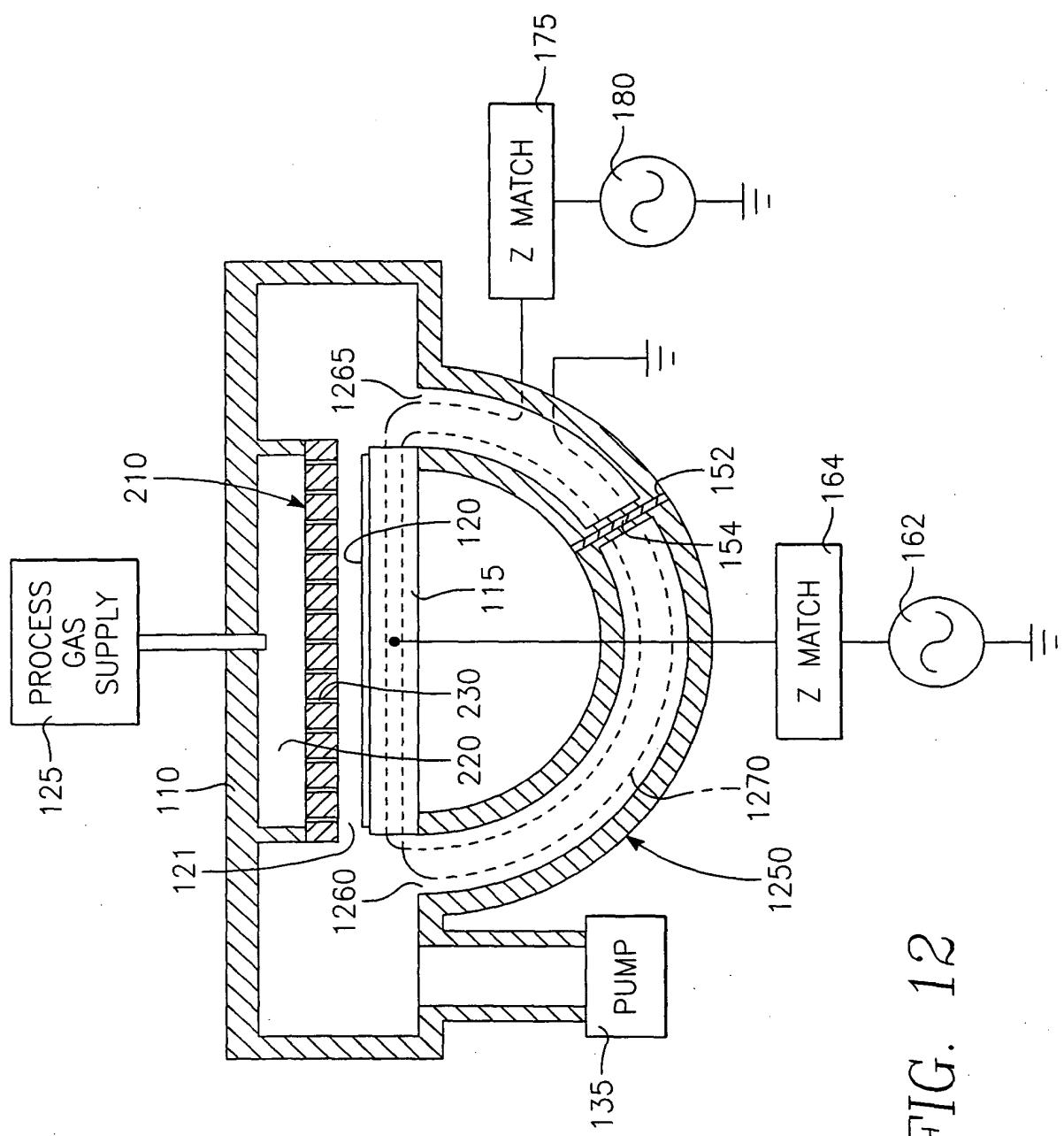


FIG. 12

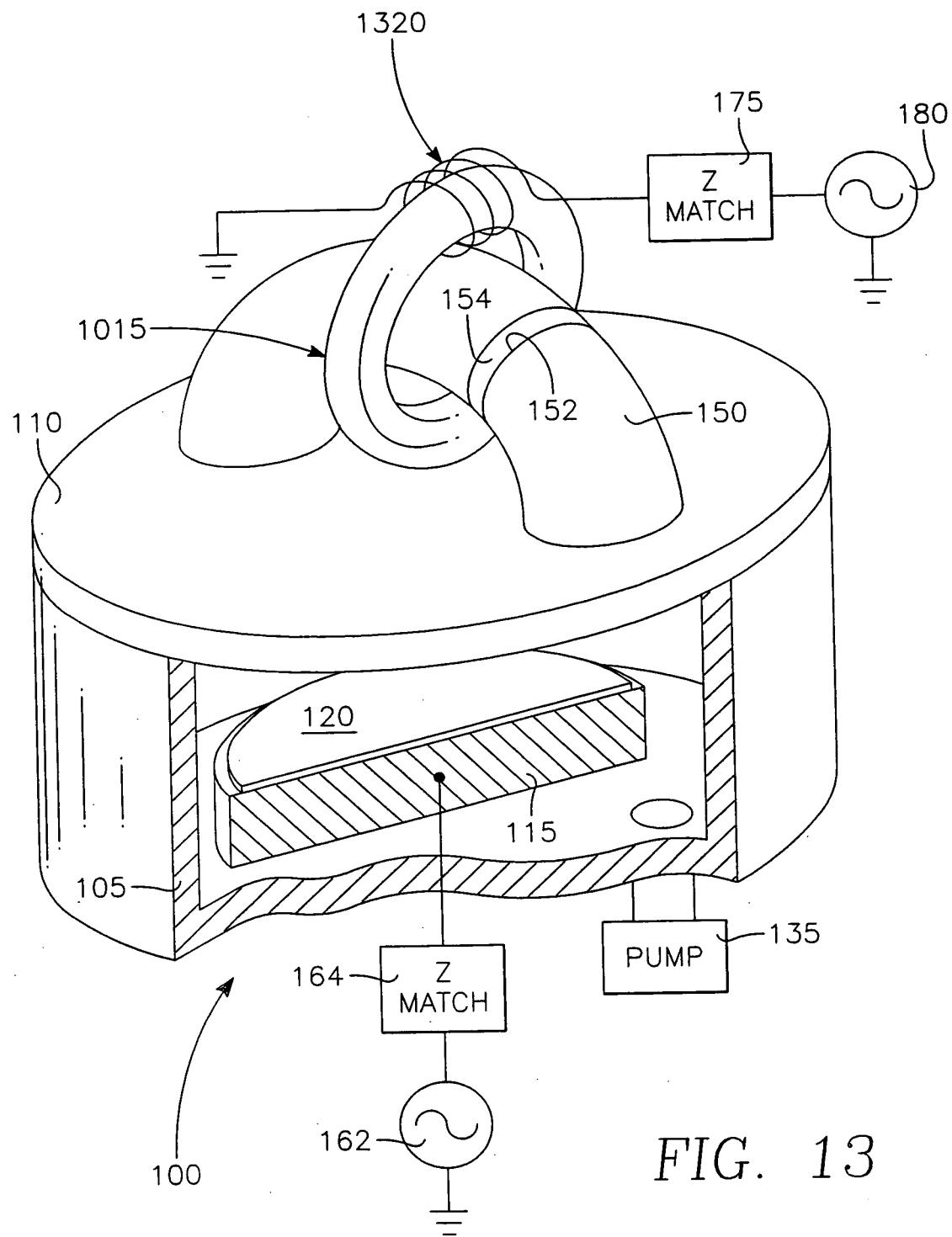


FIG. 13

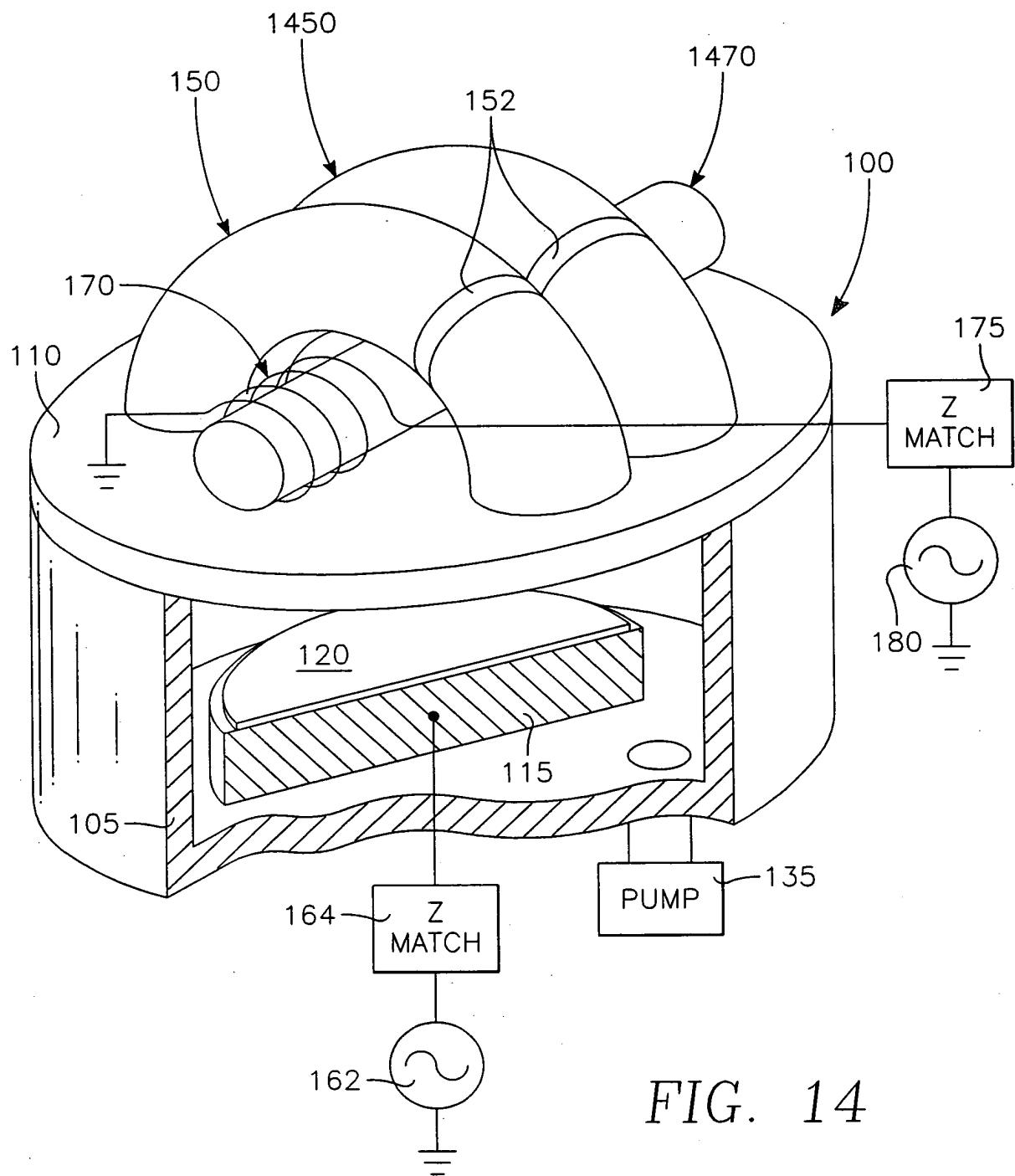


FIG. 14

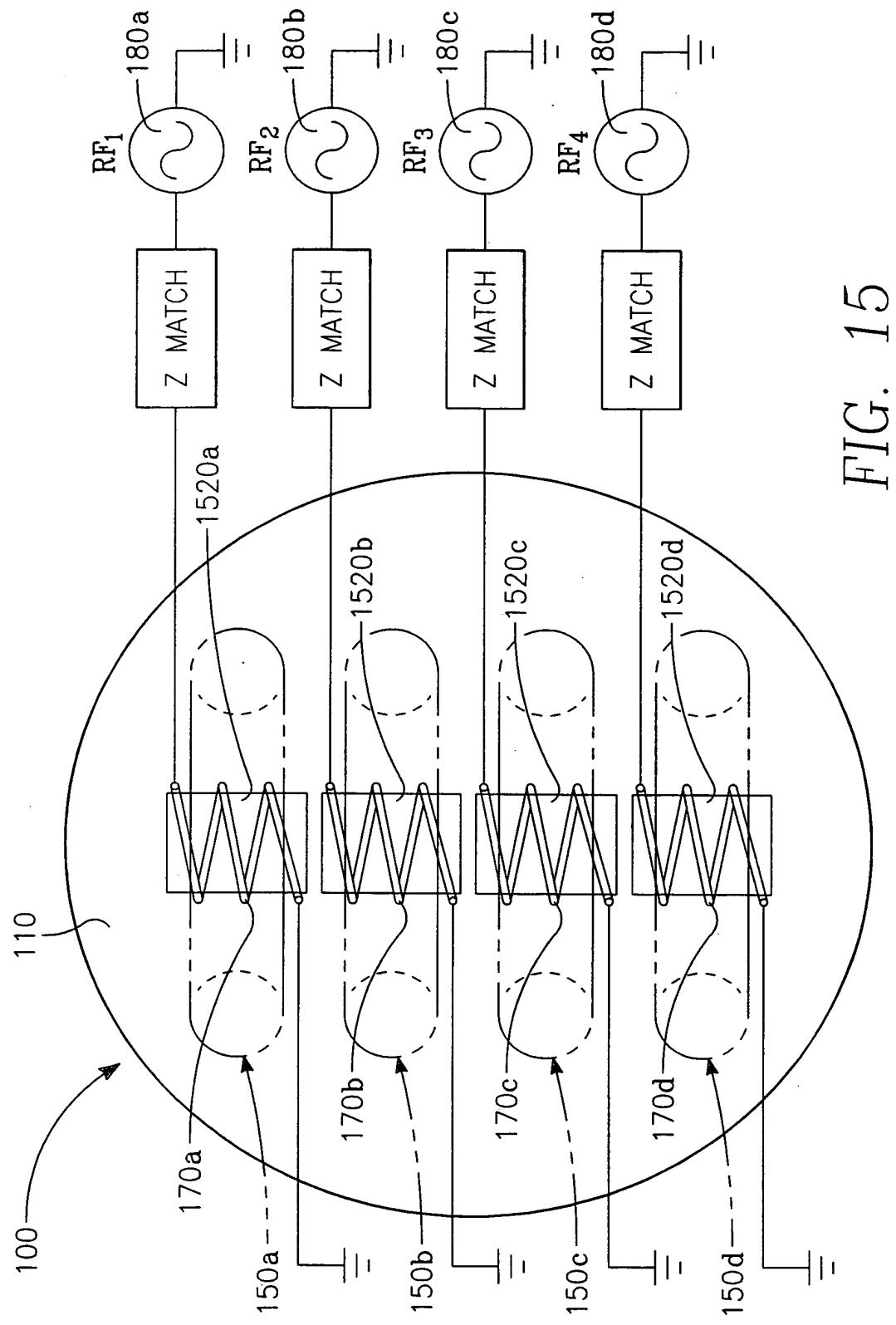


FIG. 15

12 / 85

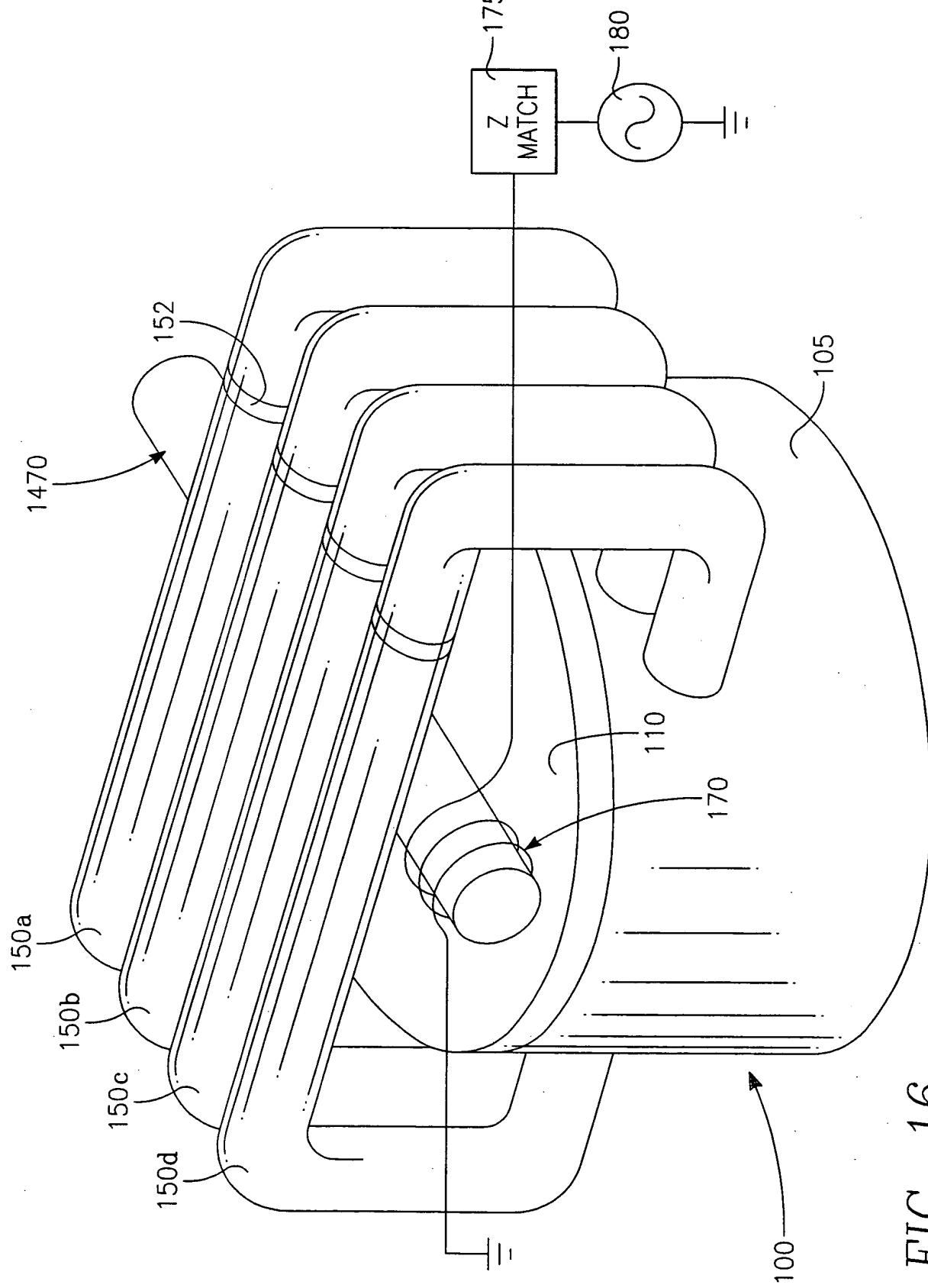


FIG. 16

13/85

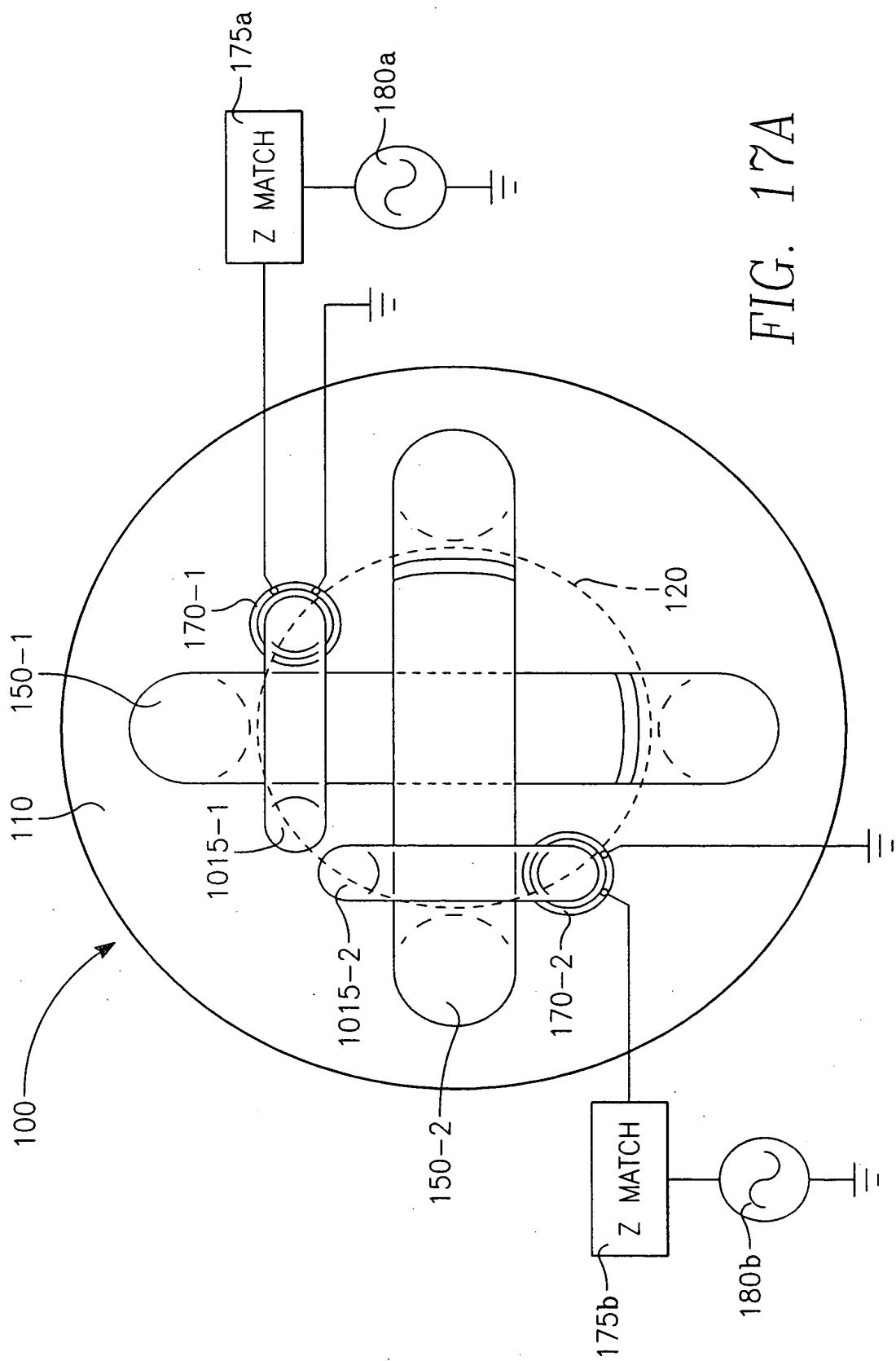


FIG. 17A

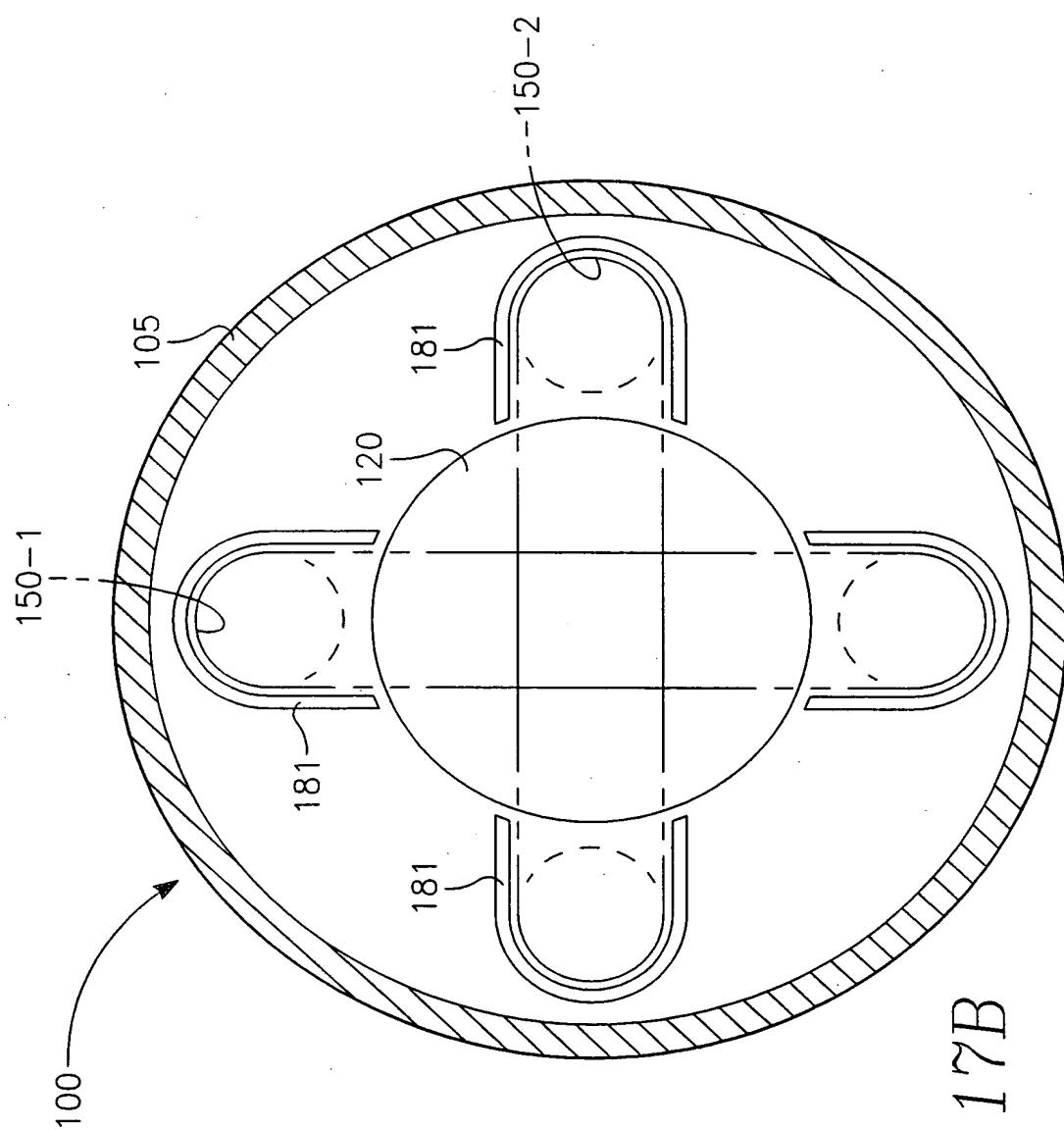


FIG. 17B

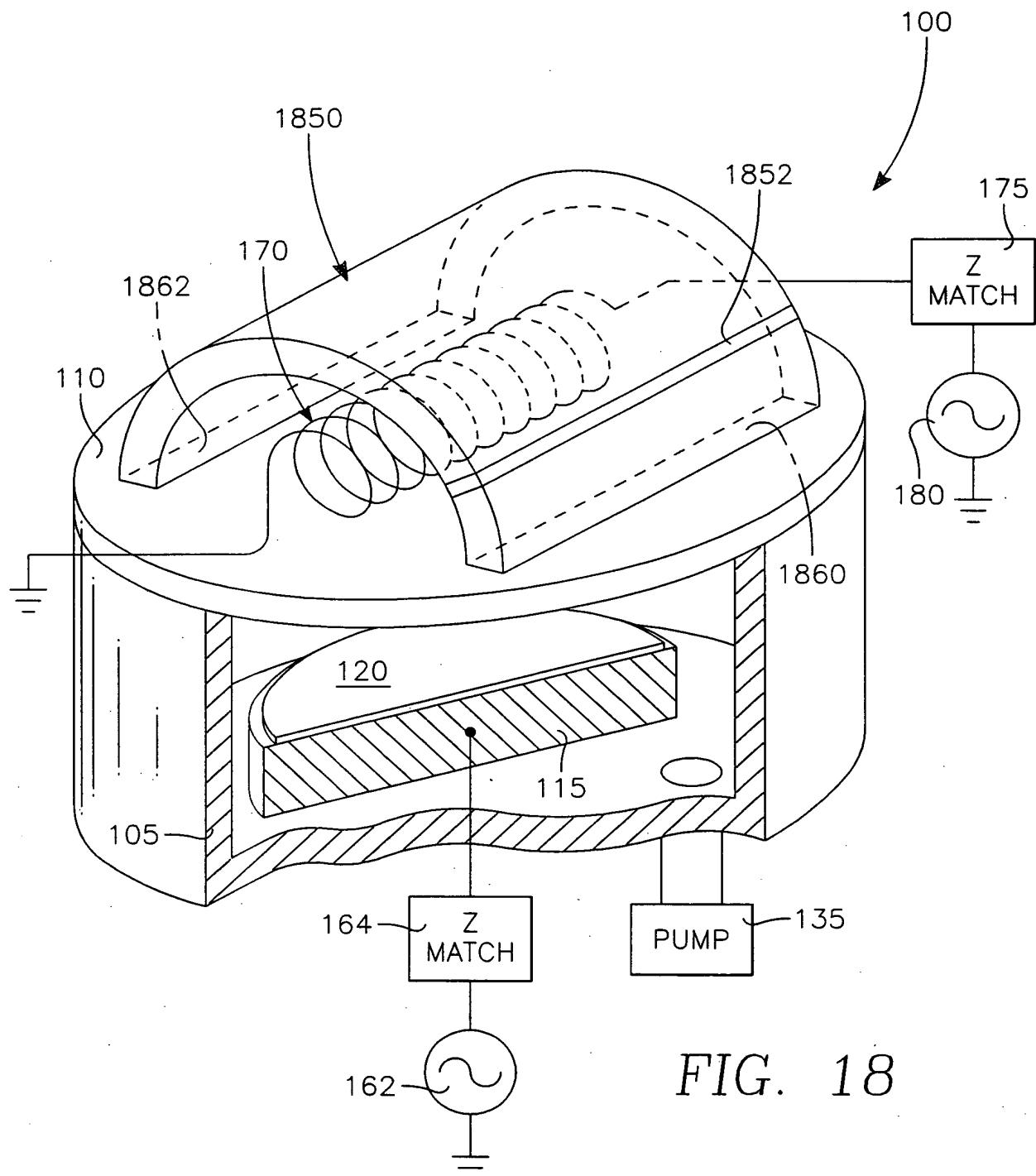


FIG. 18

16/85

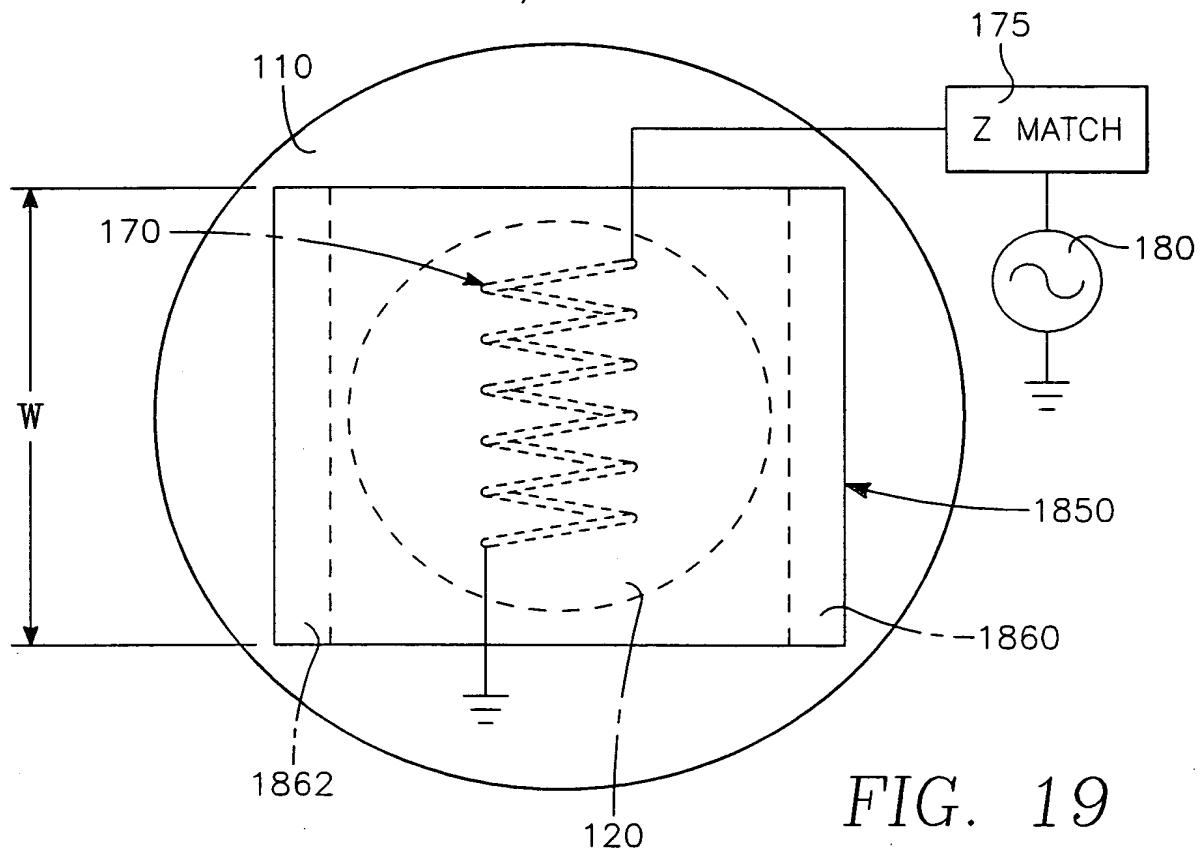


FIG. 19

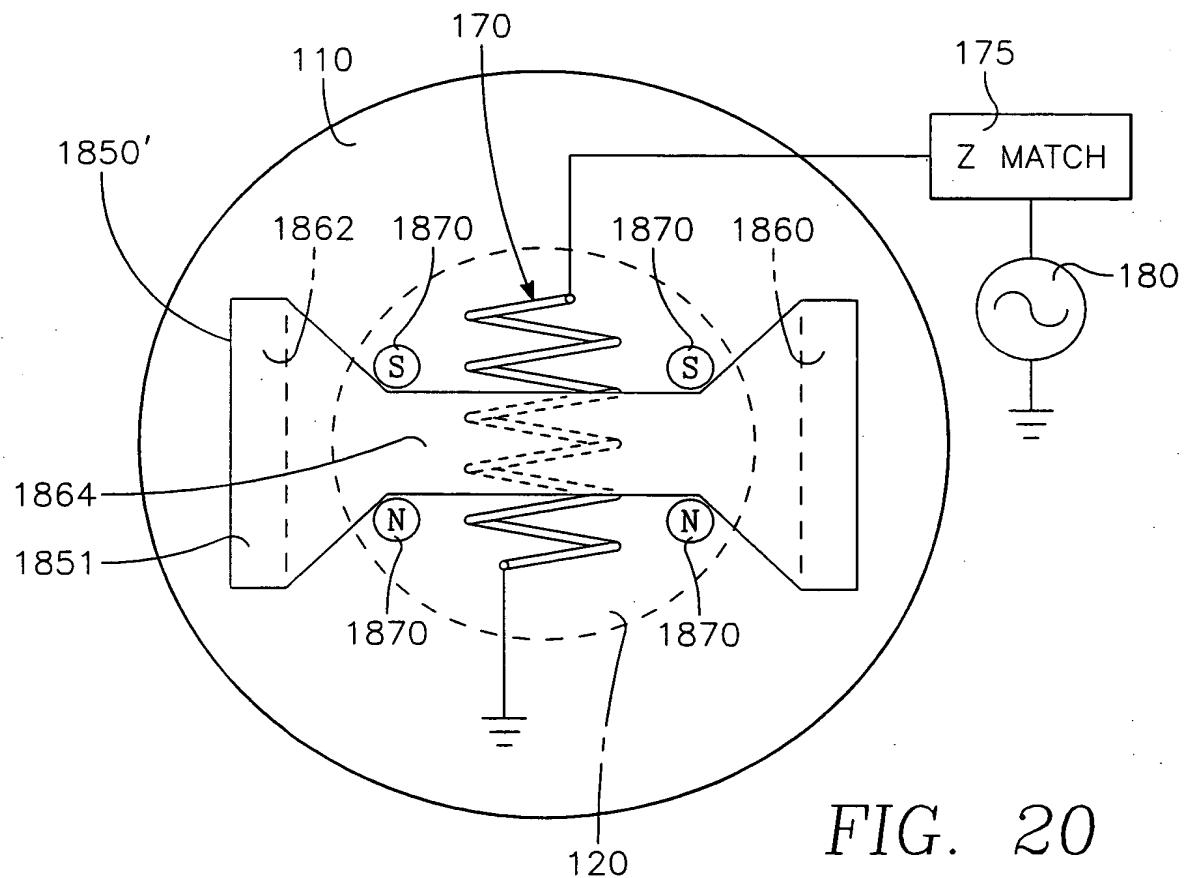


FIG. 20

17/85

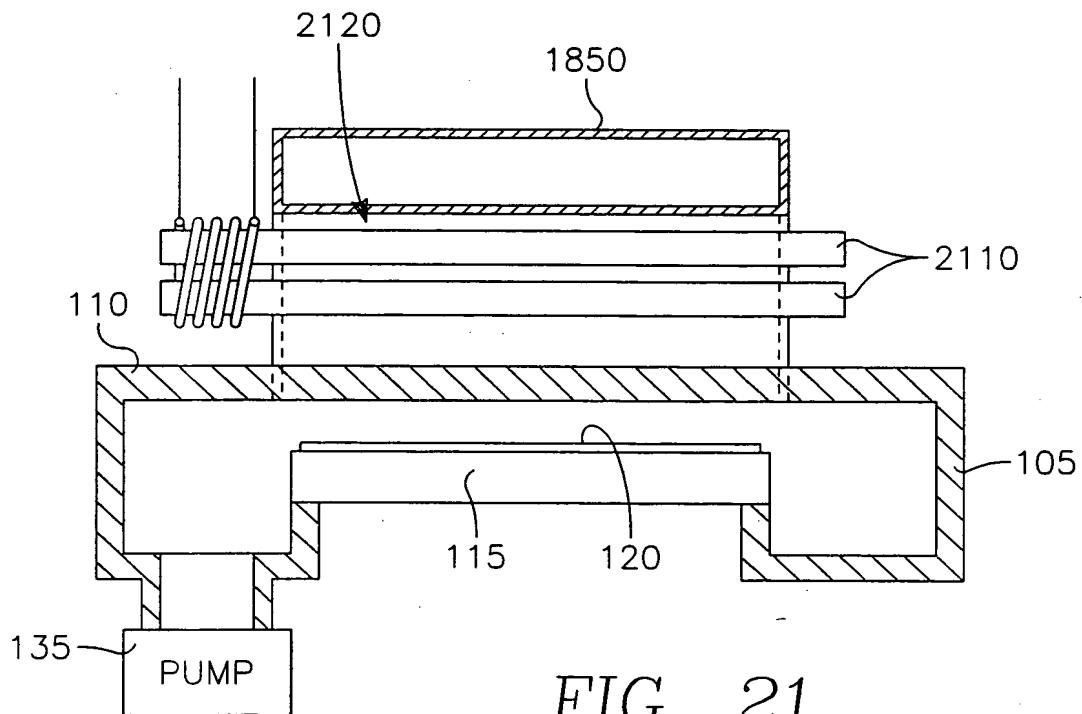


FIG. 21

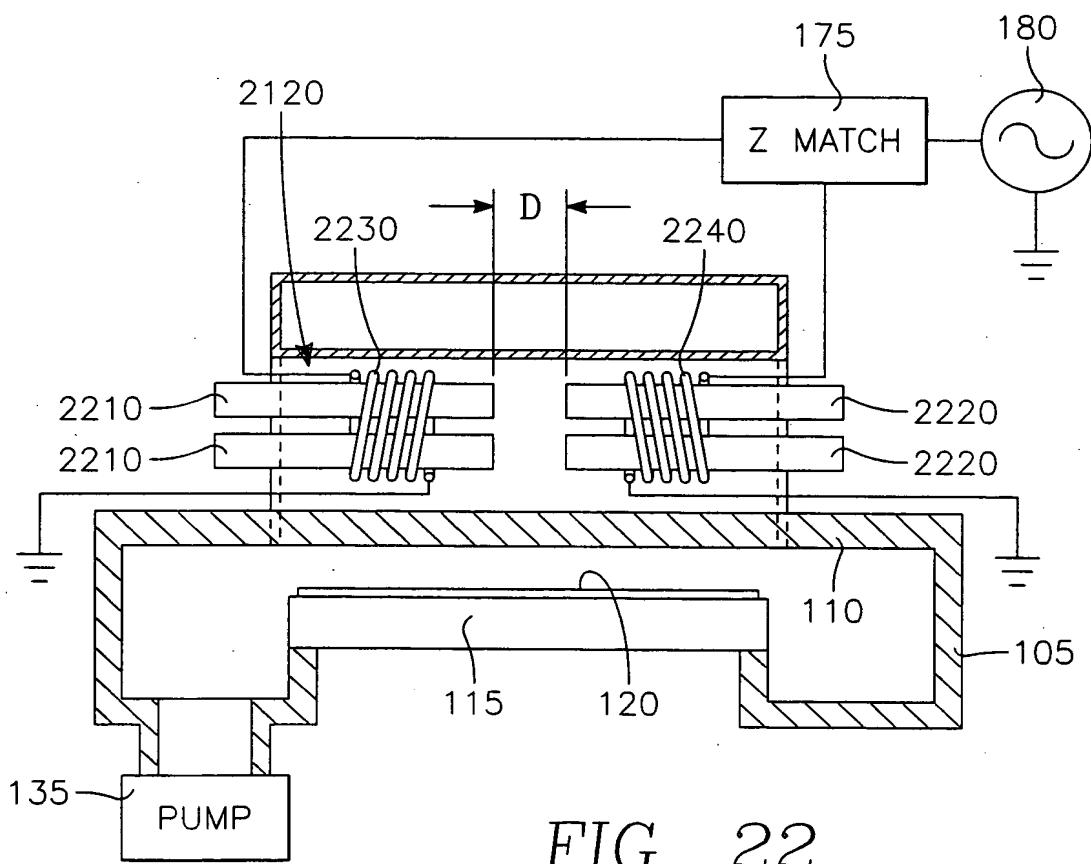


FIG. 22

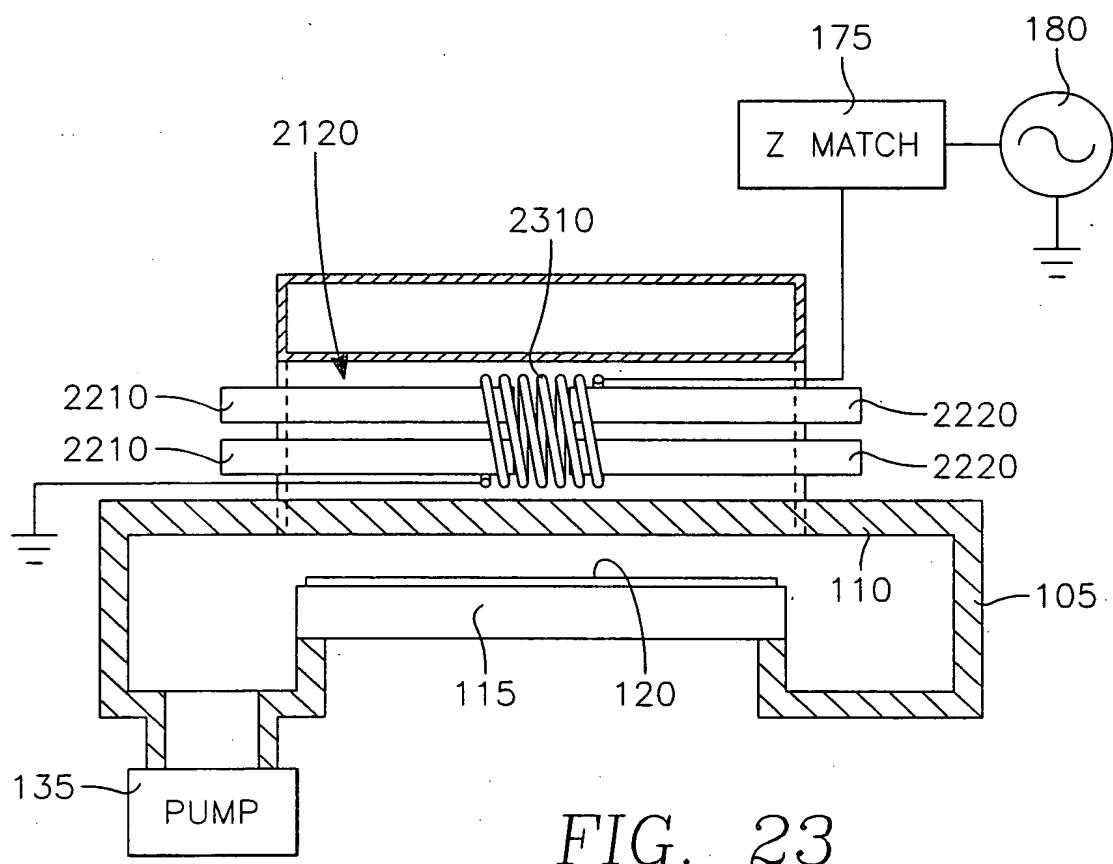


FIG. 23

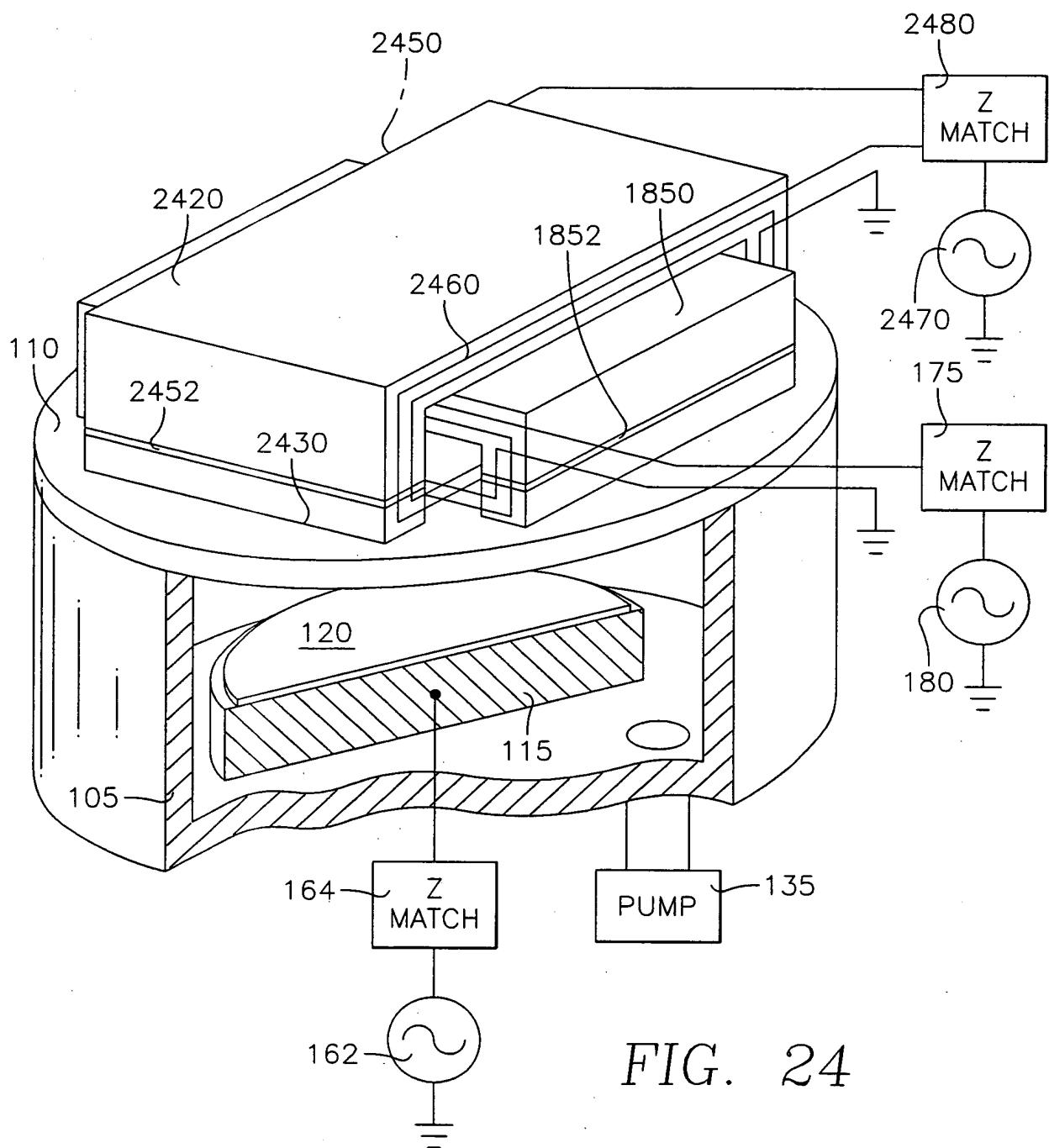


FIG. 24

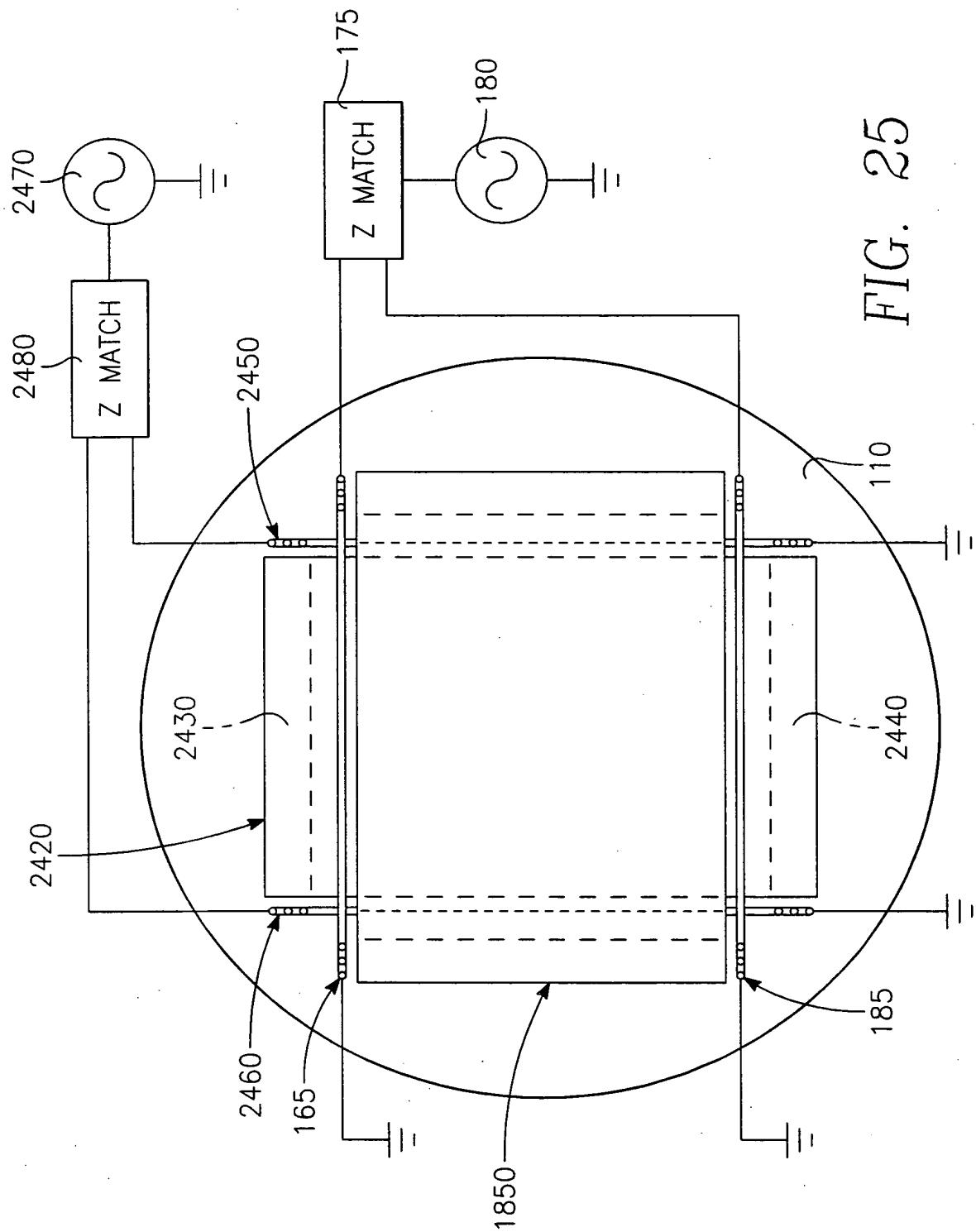


FIG. 25

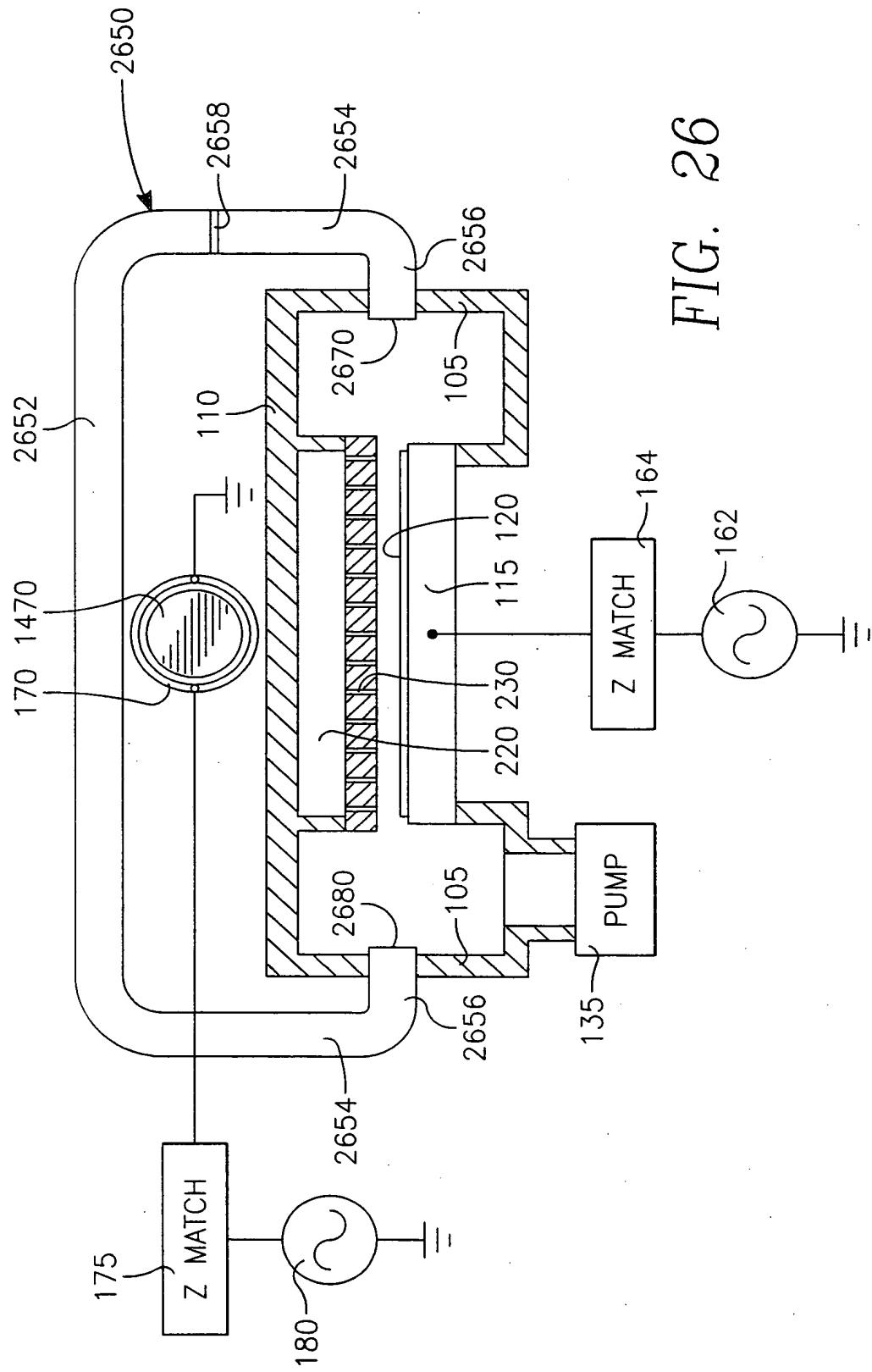


FIG. 26

22/85

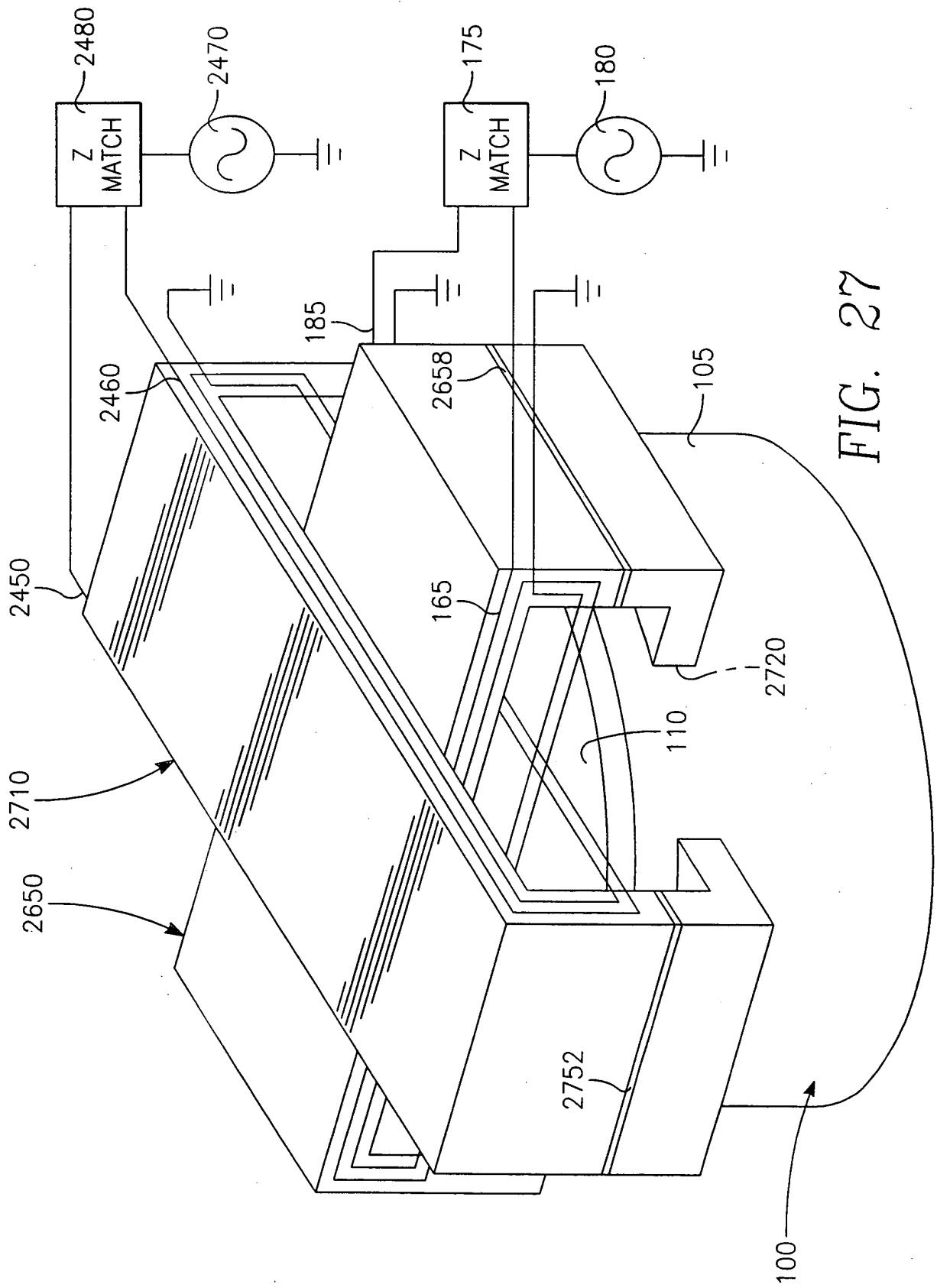
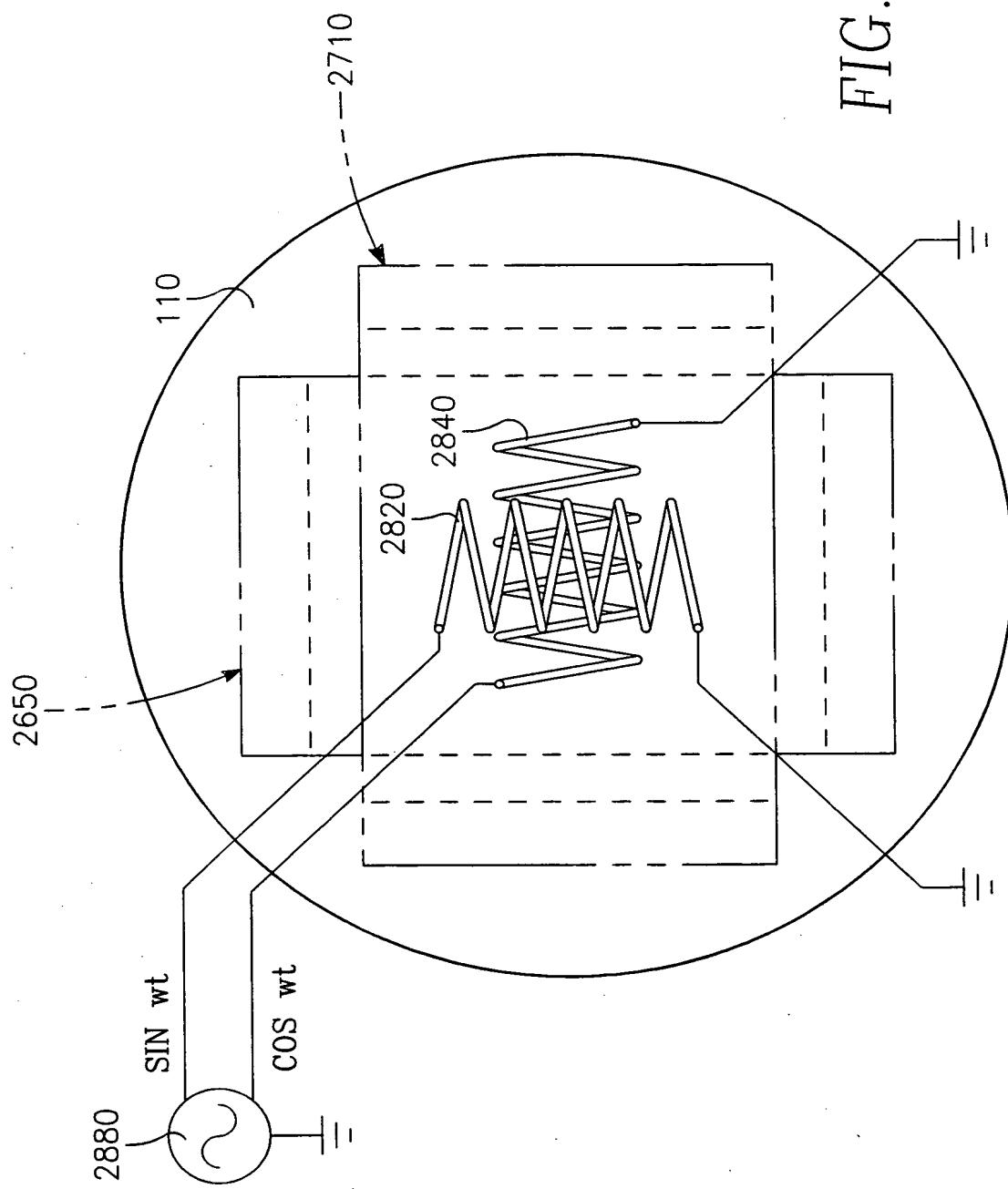


FIG. 28A



24/85

FIG. 28B

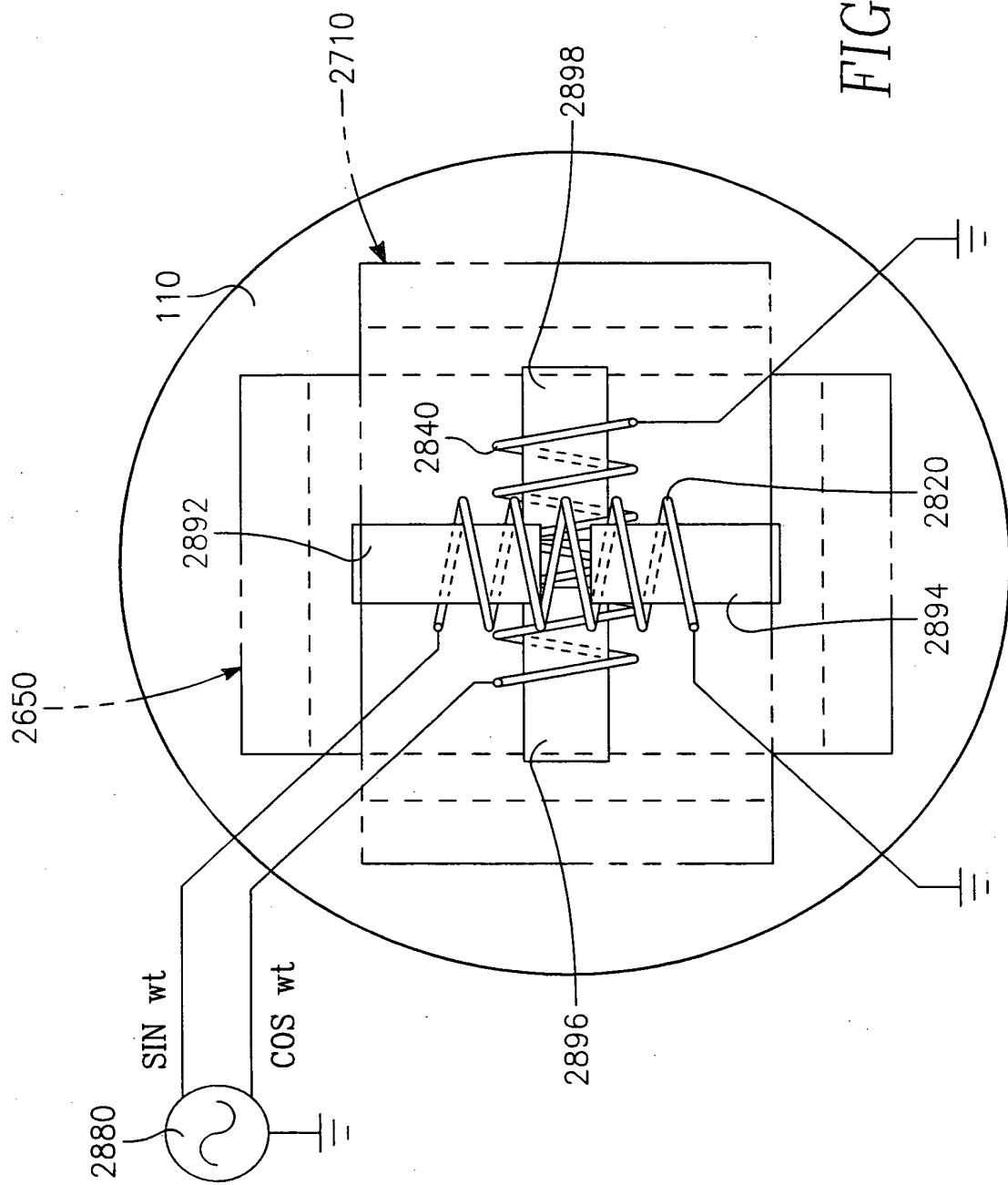
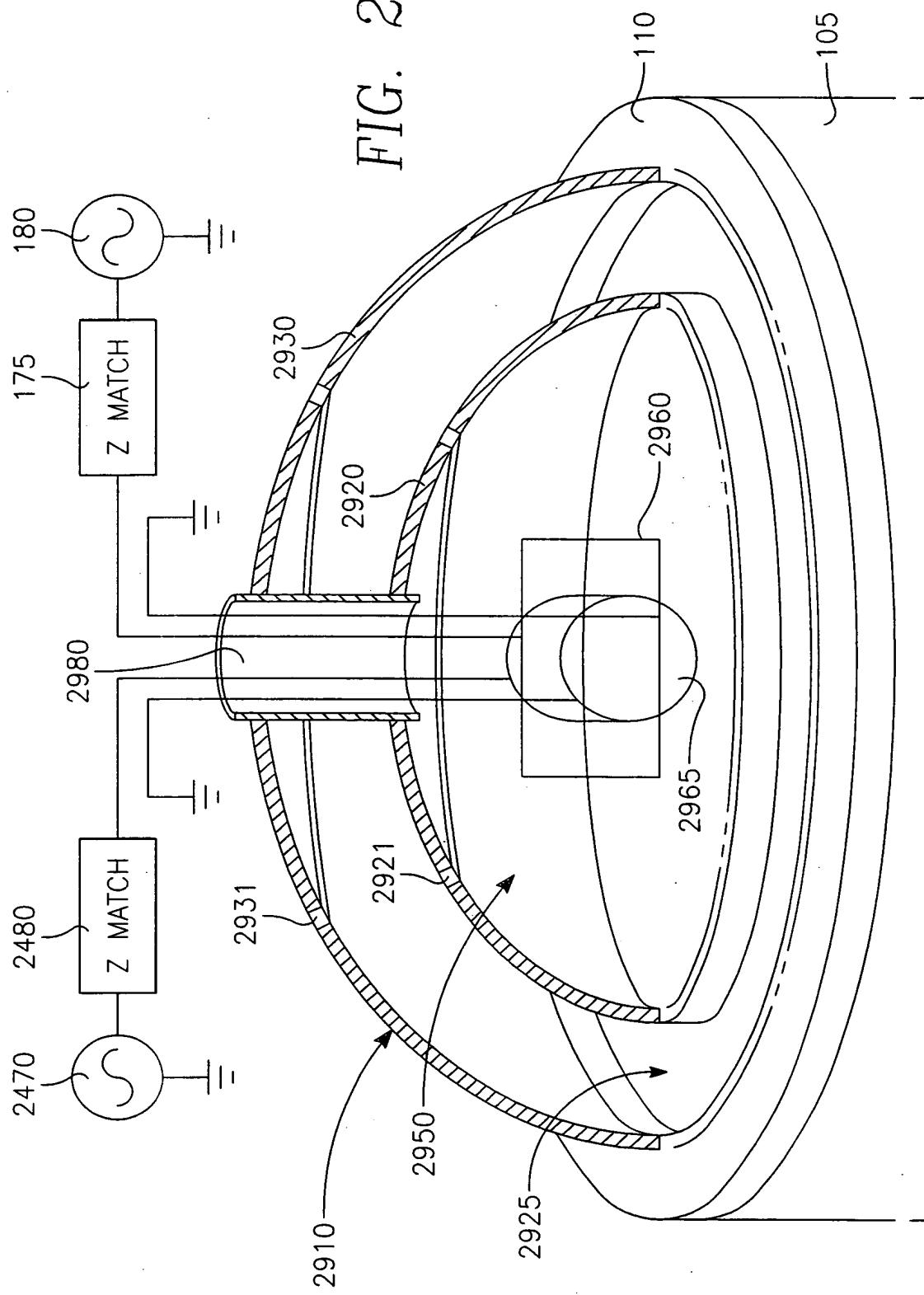


FIG. 29



26/85

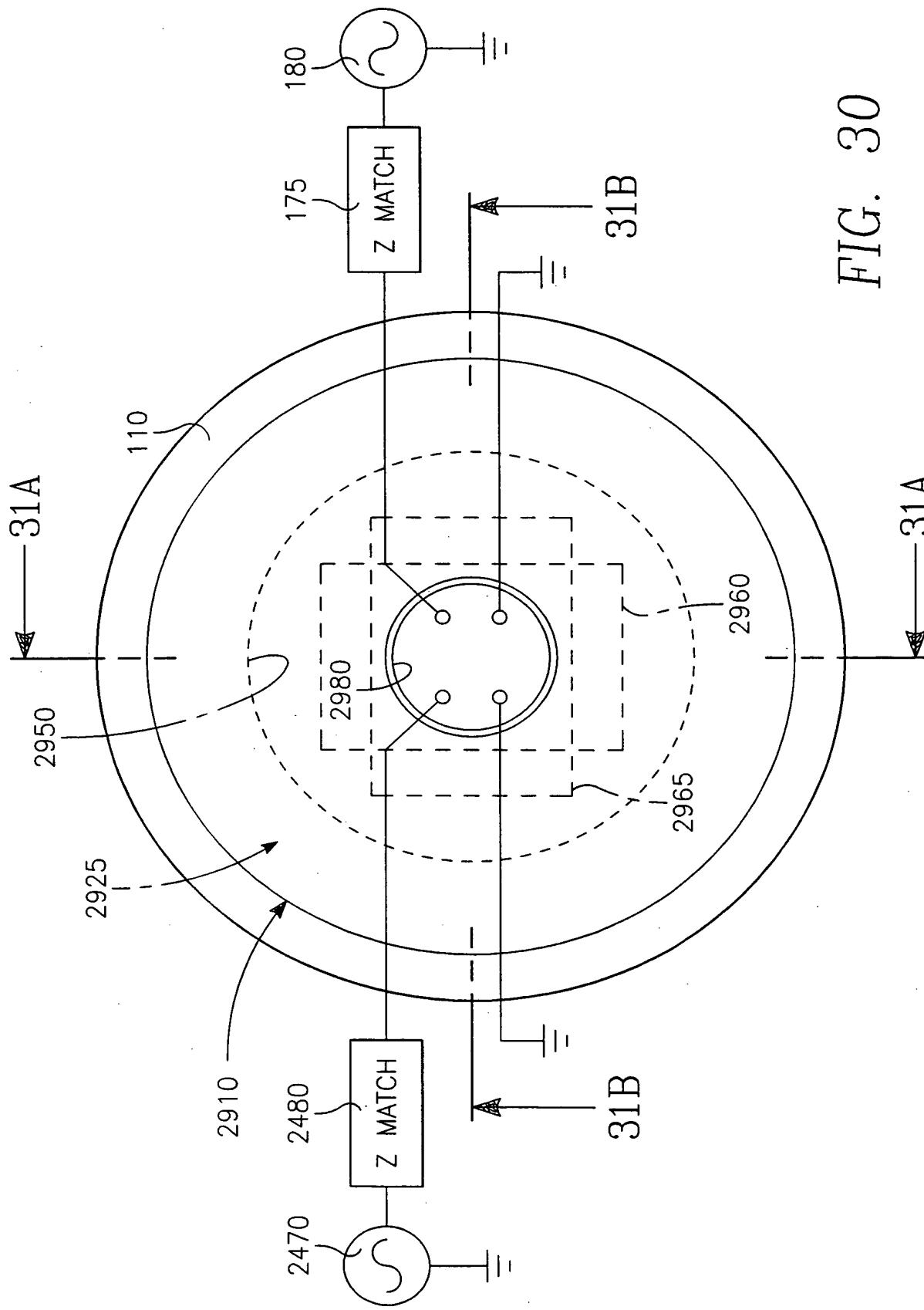


FIG. 30

31A

27/85

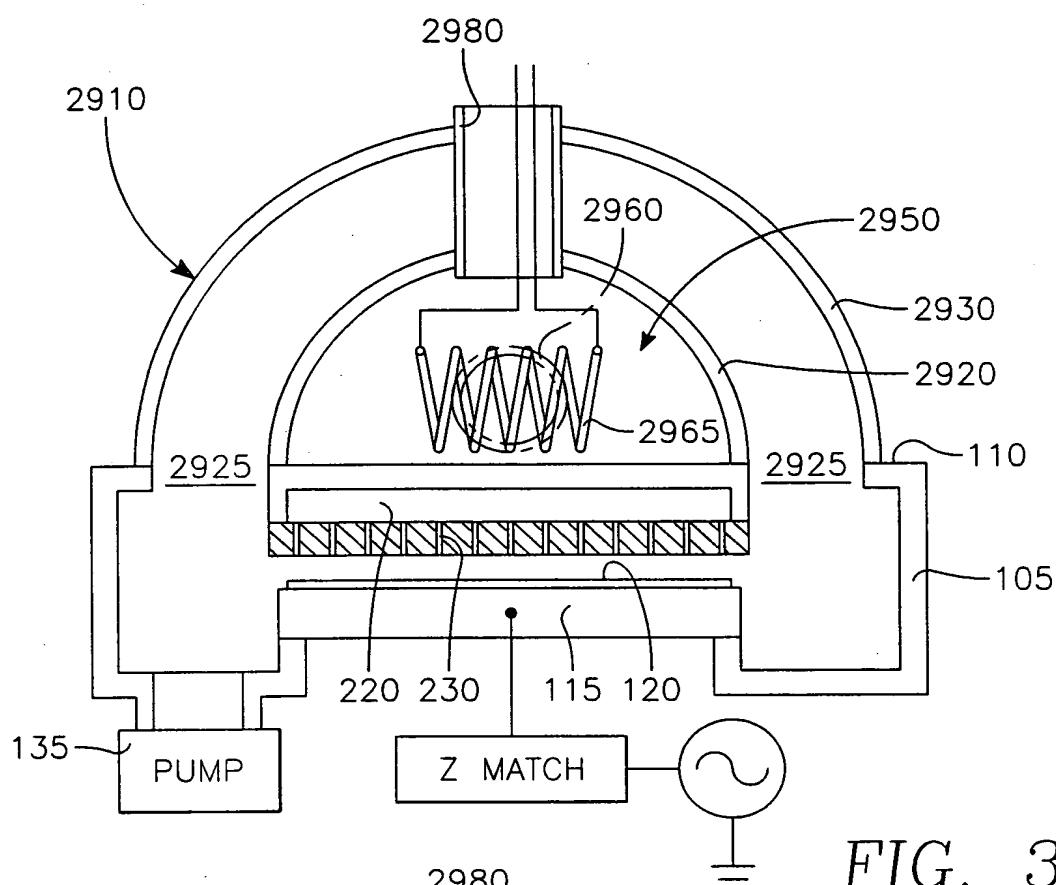


FIG. 31A

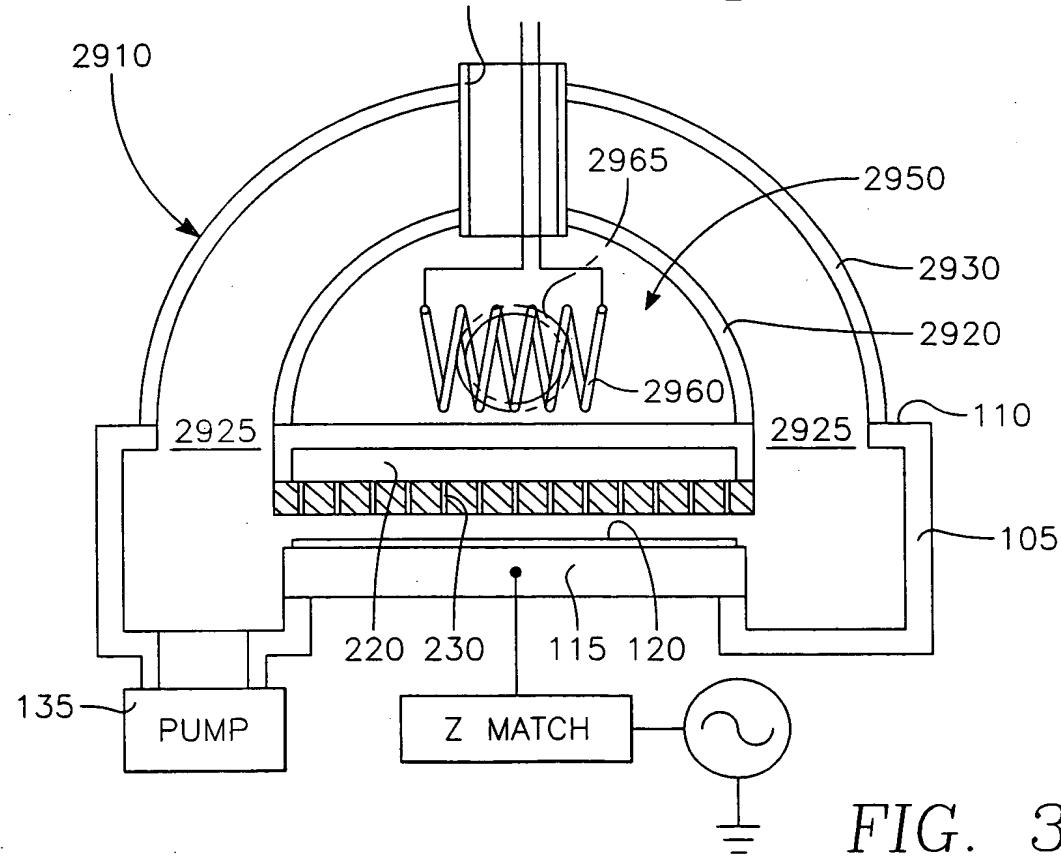


FIG. 31B

28 / 85

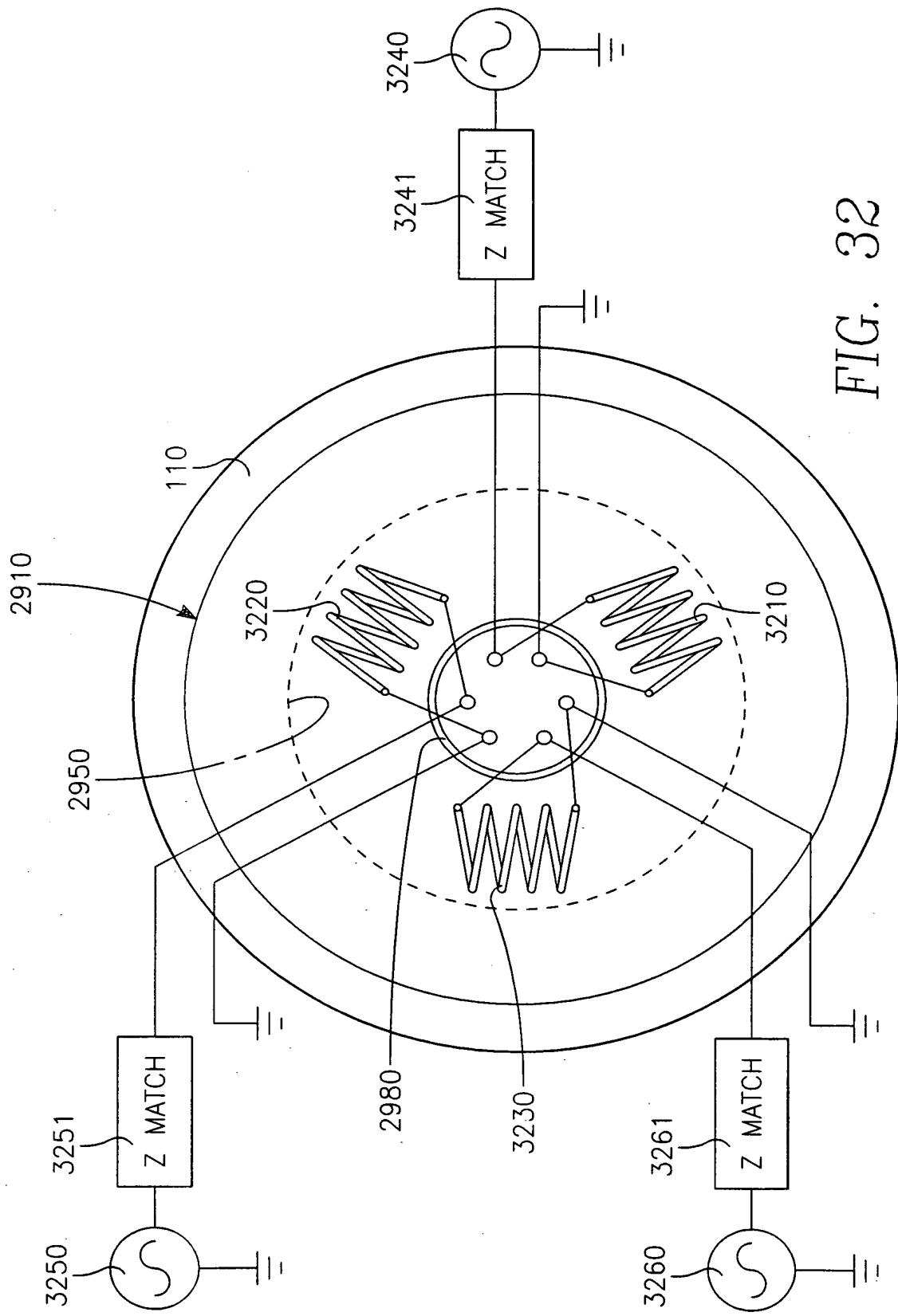


FIG. 32

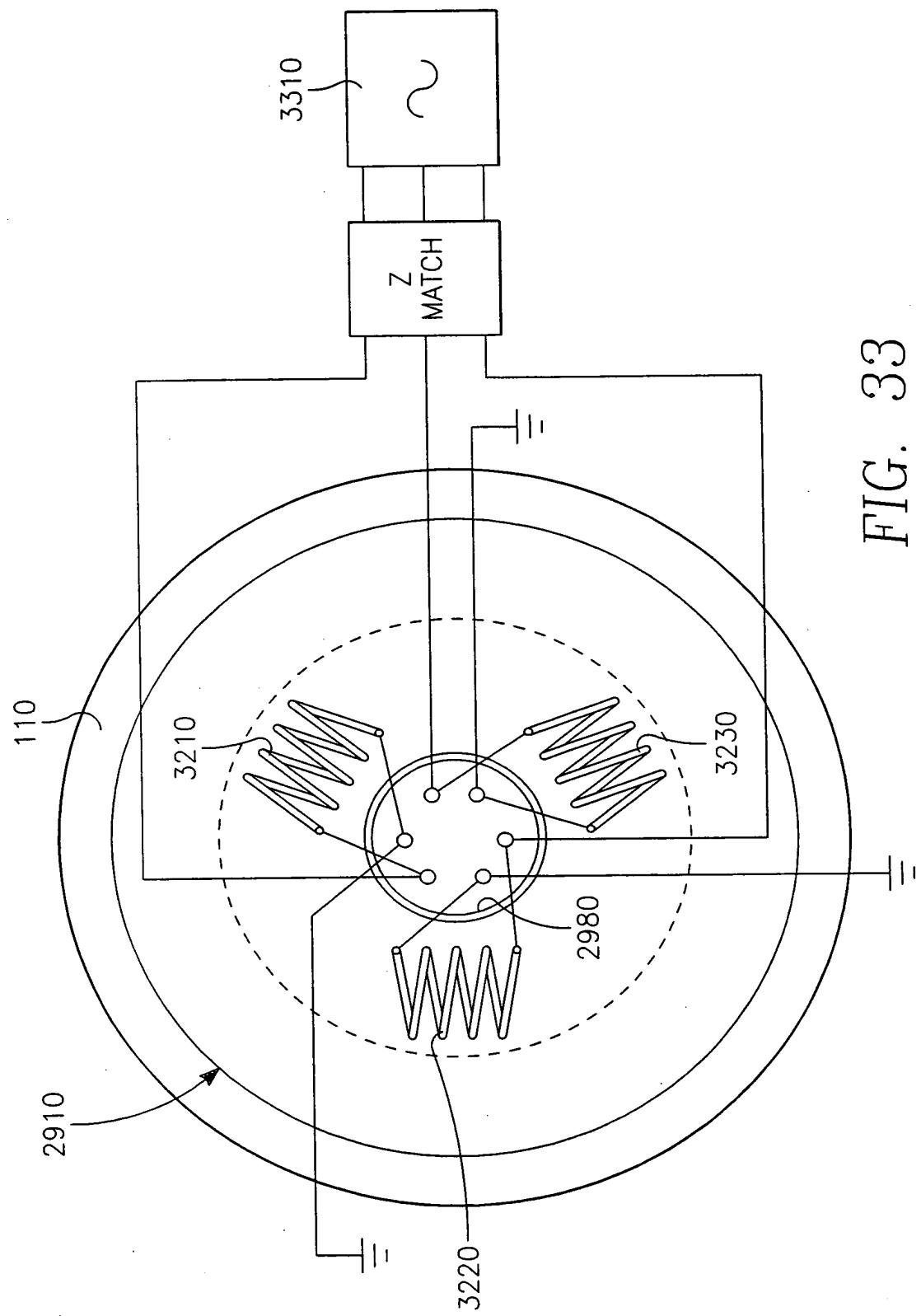
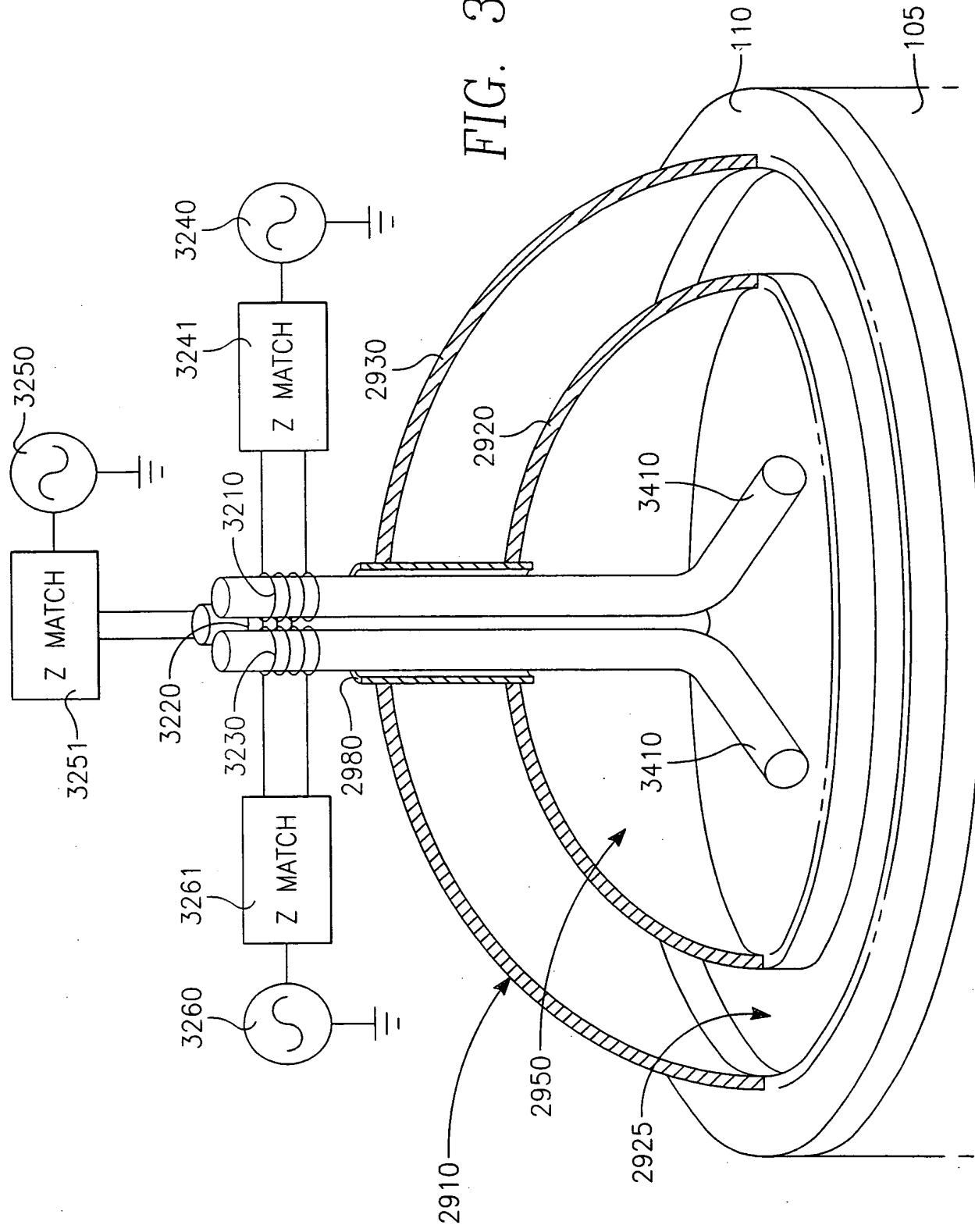


FIG. 33

FIG. 34



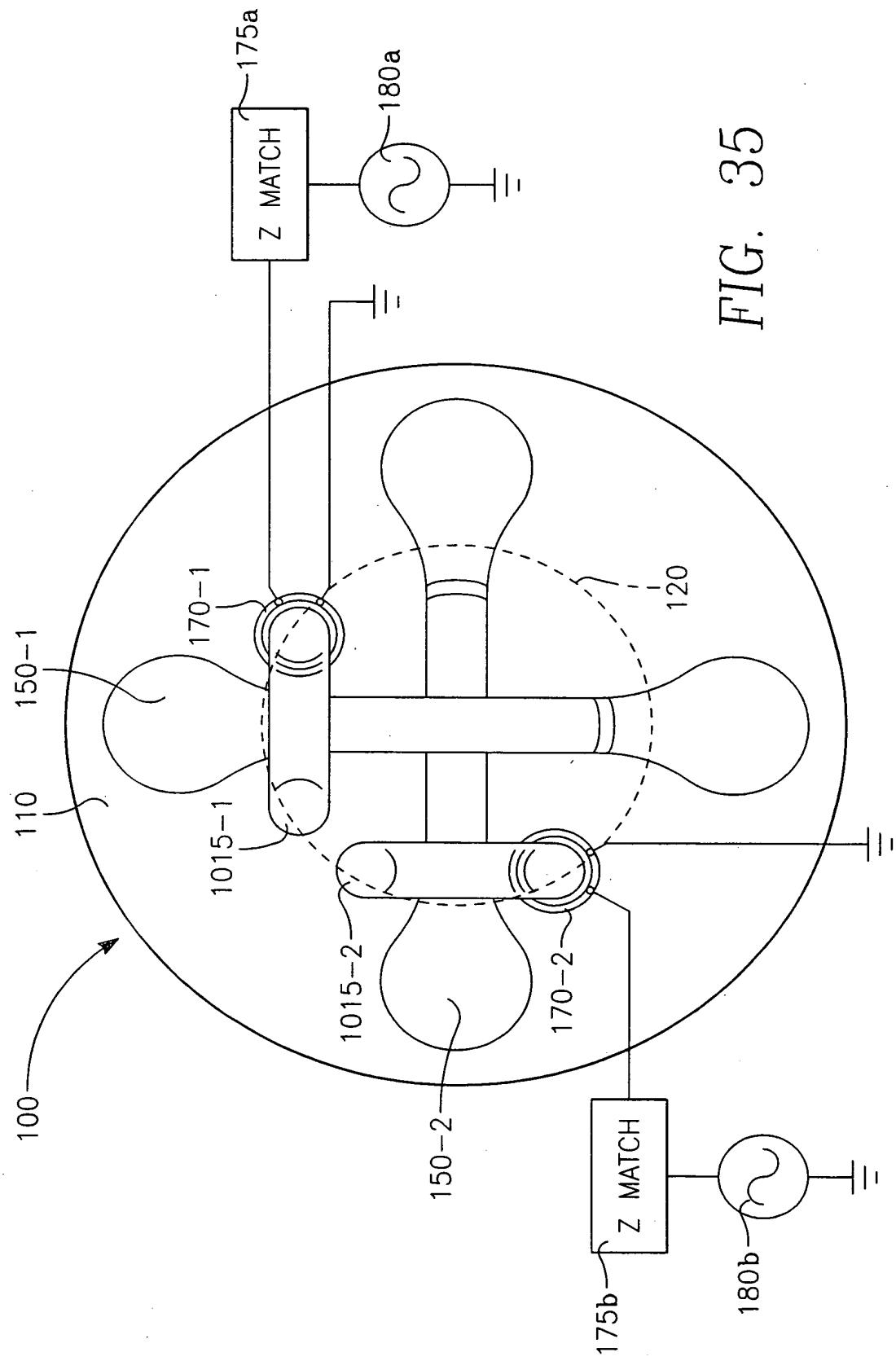


FIG. 35

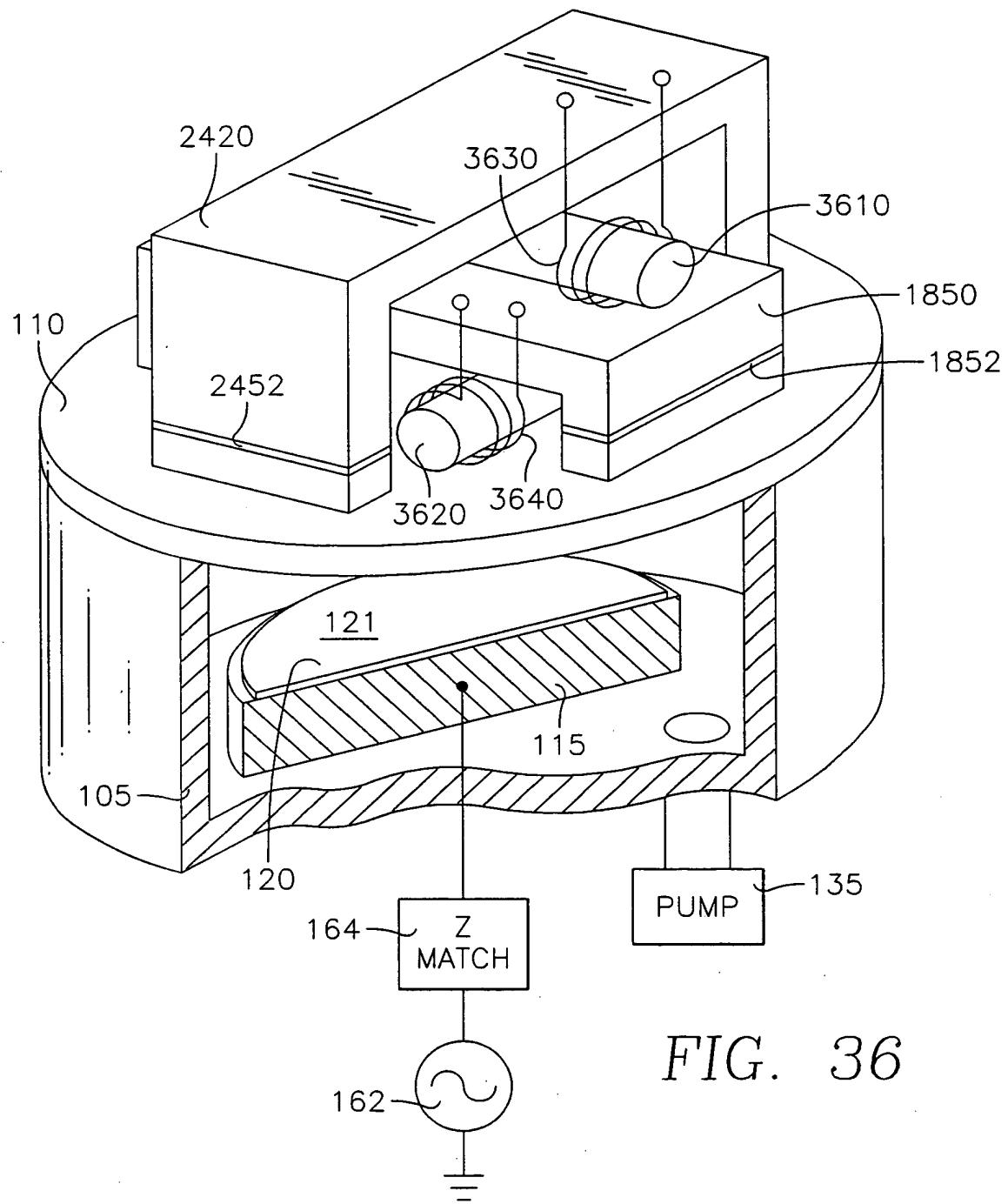


FIG. 36

33/85

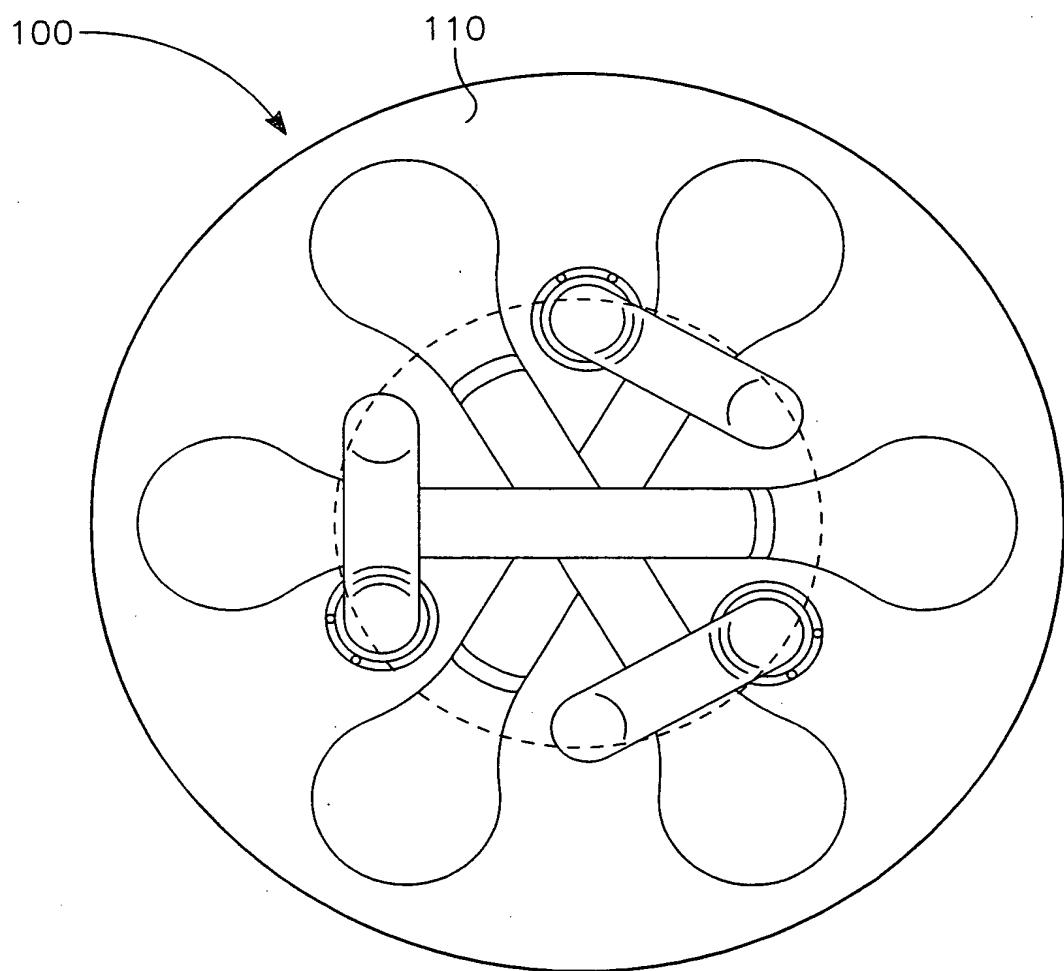


FIG. 37

34/85

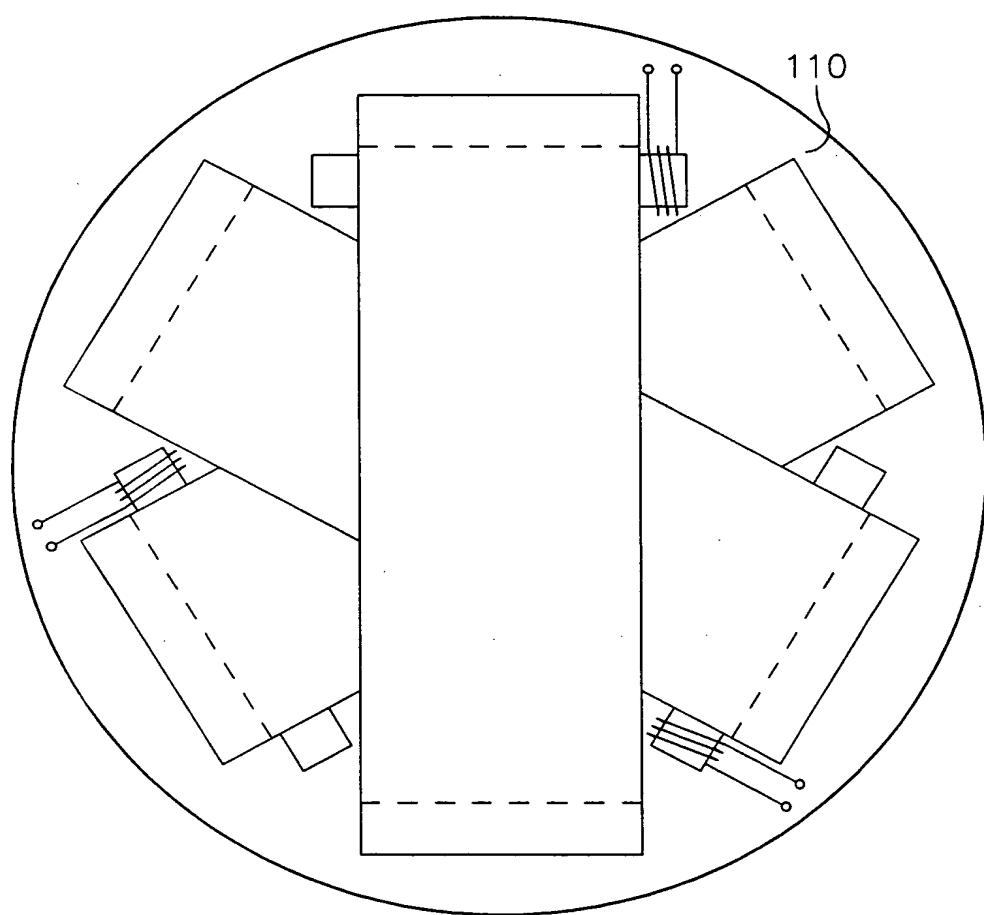


FIG. 38

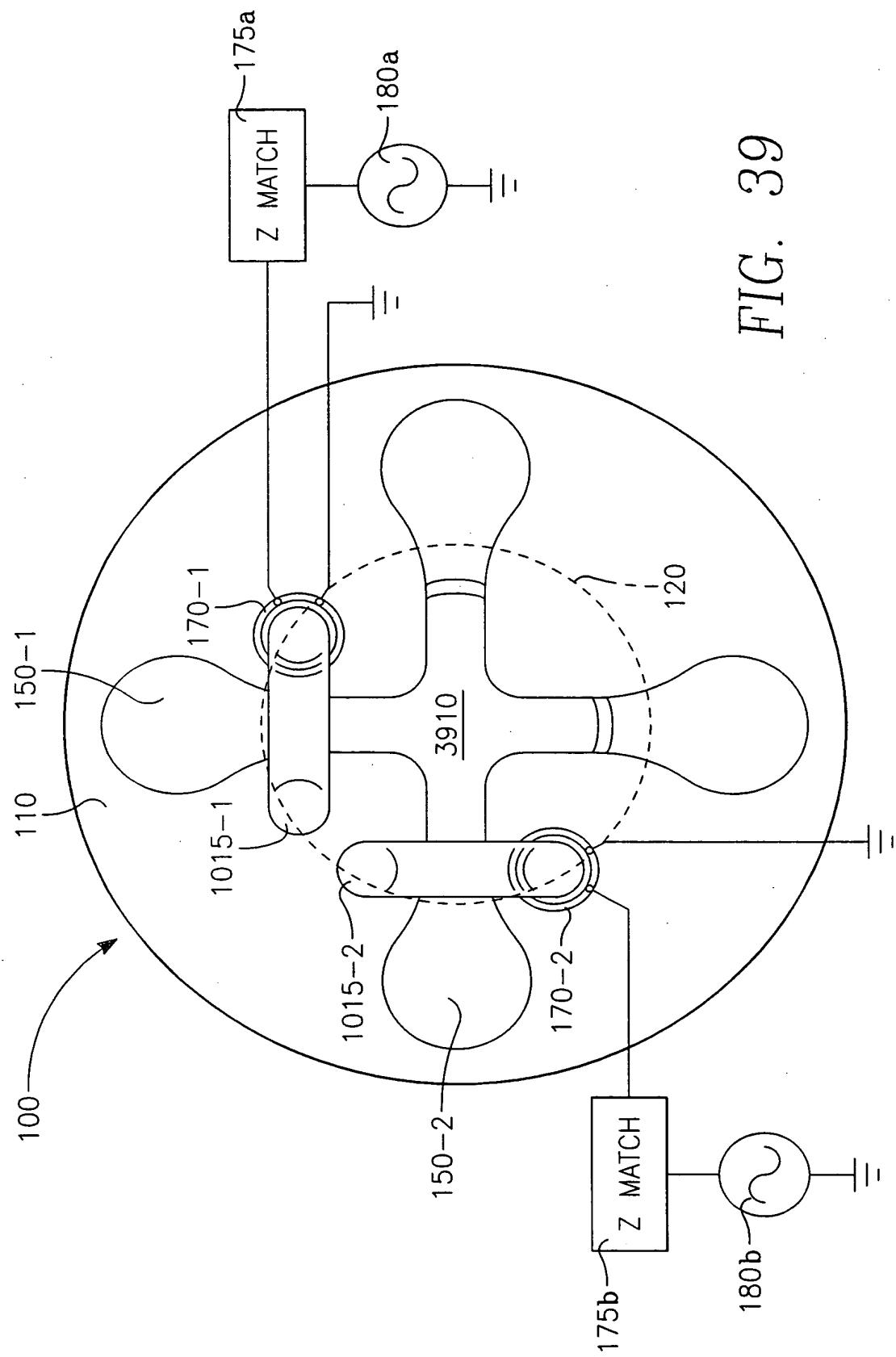


FIG. 39

36/85

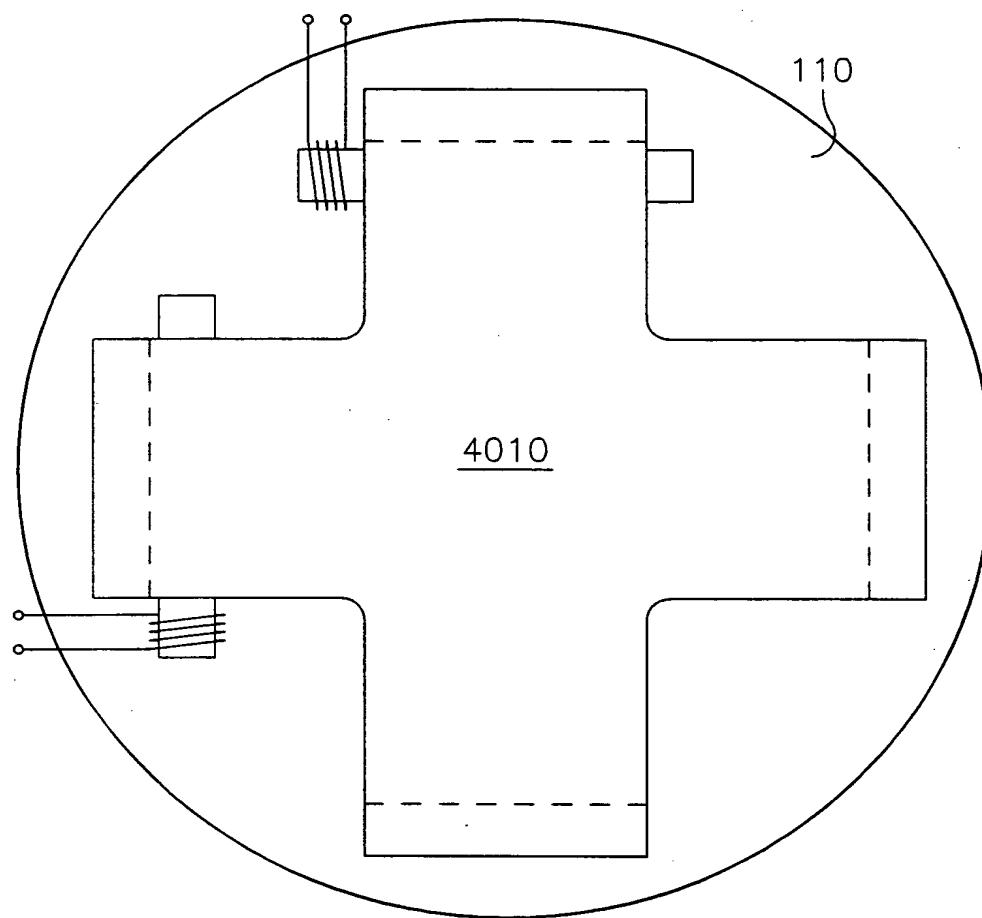


FIG. 40

37/85

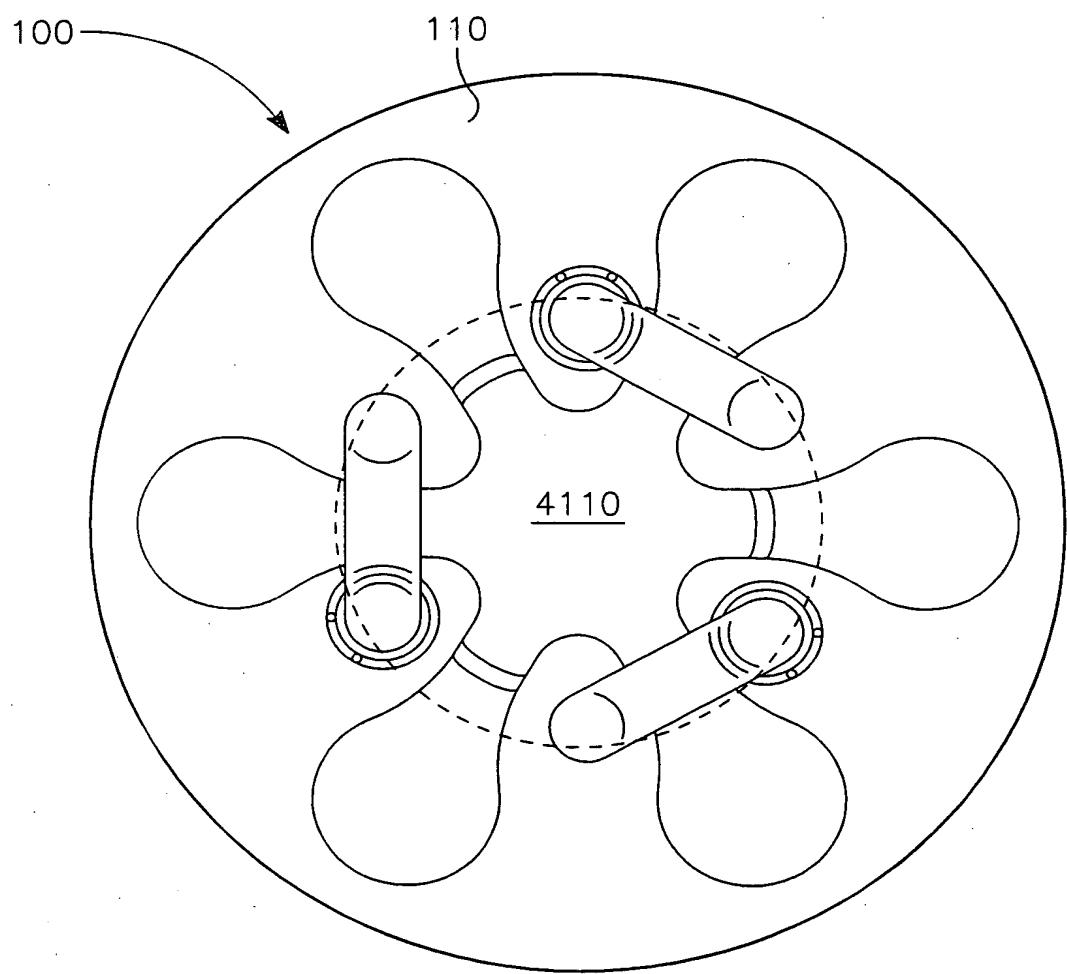


FIG. 41

38/85

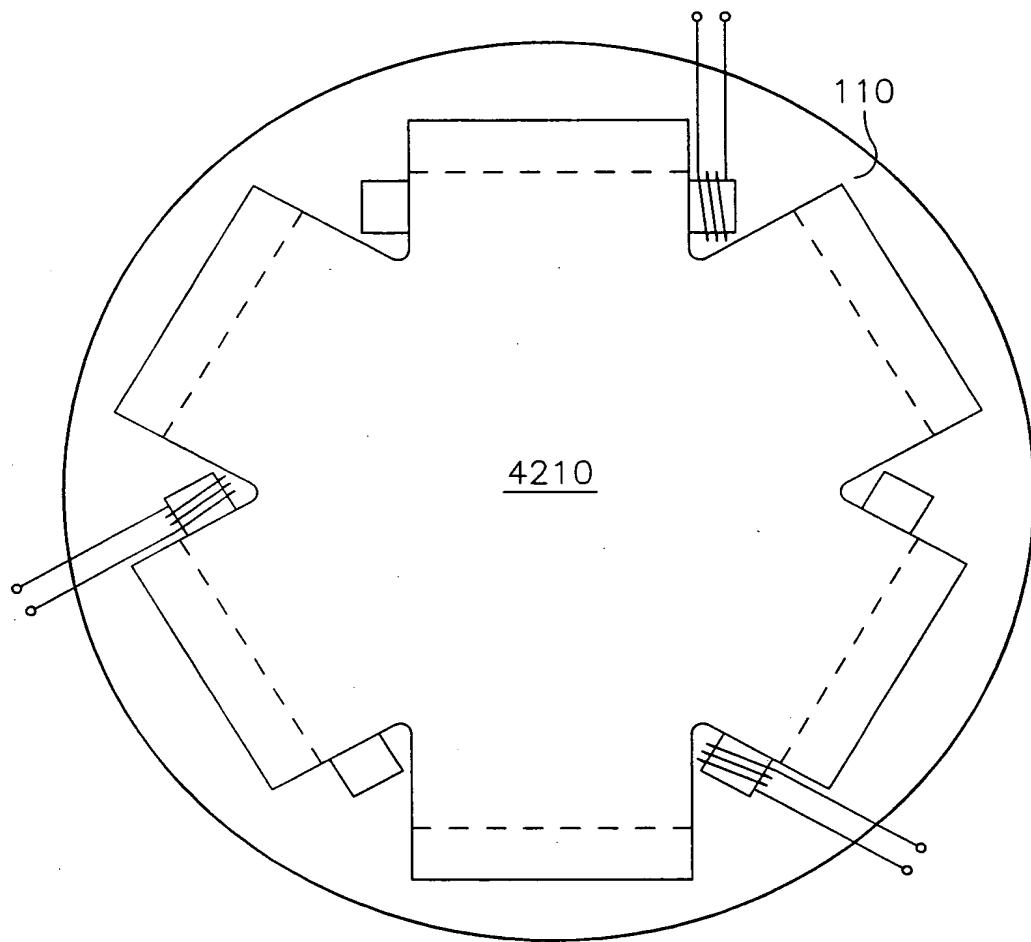


FIG. 42

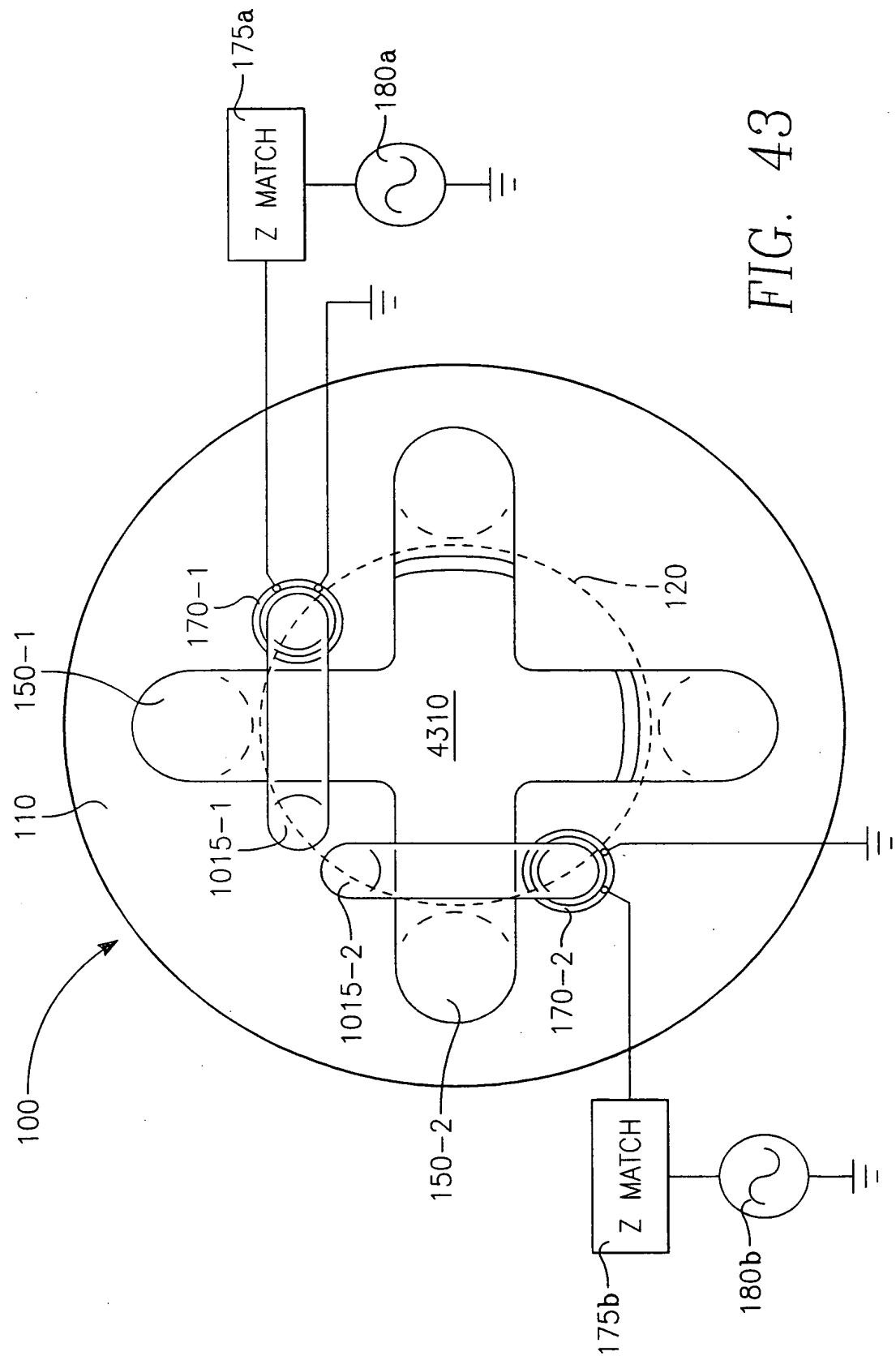


FIG. 43

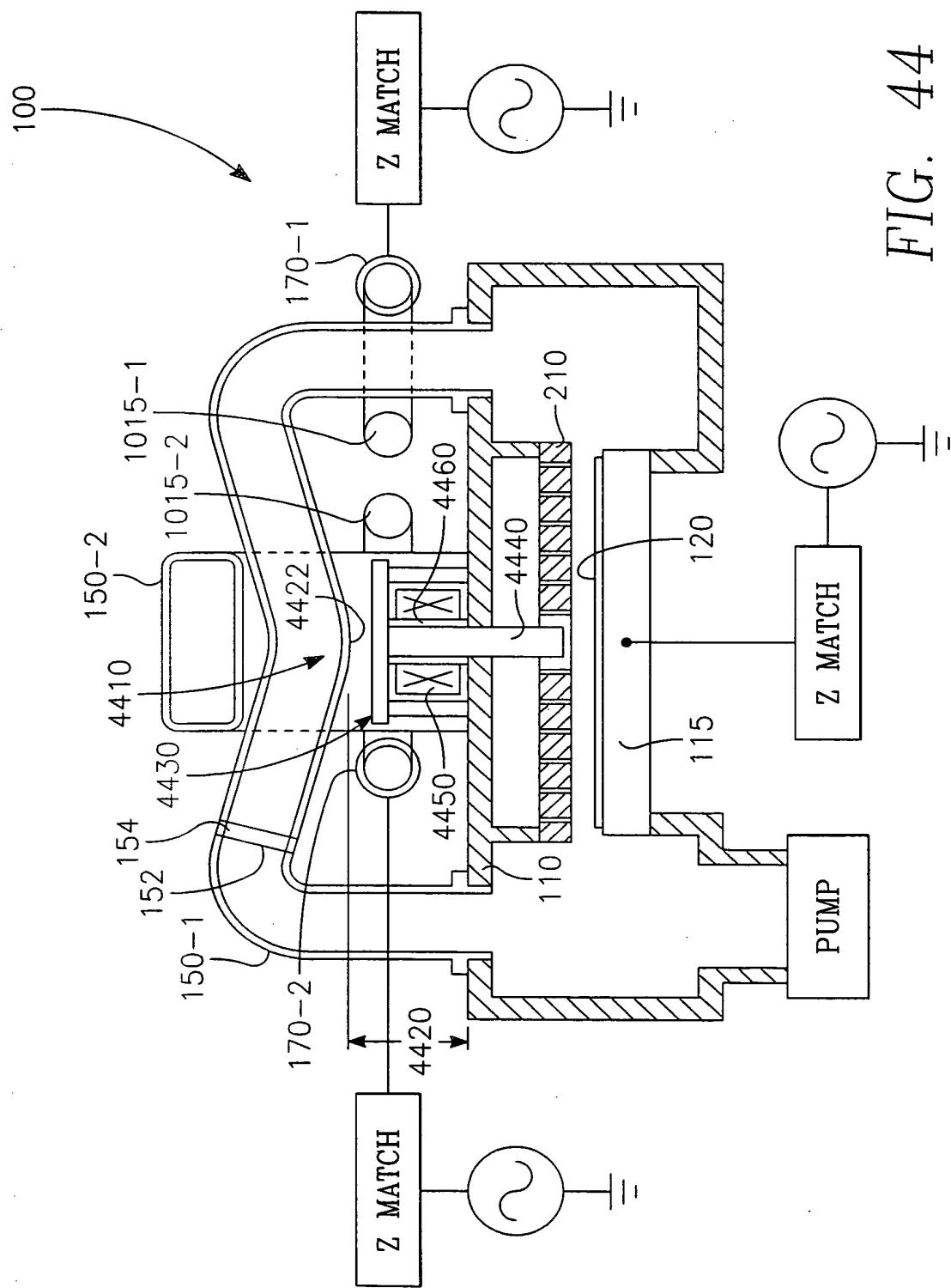


FIG. 44

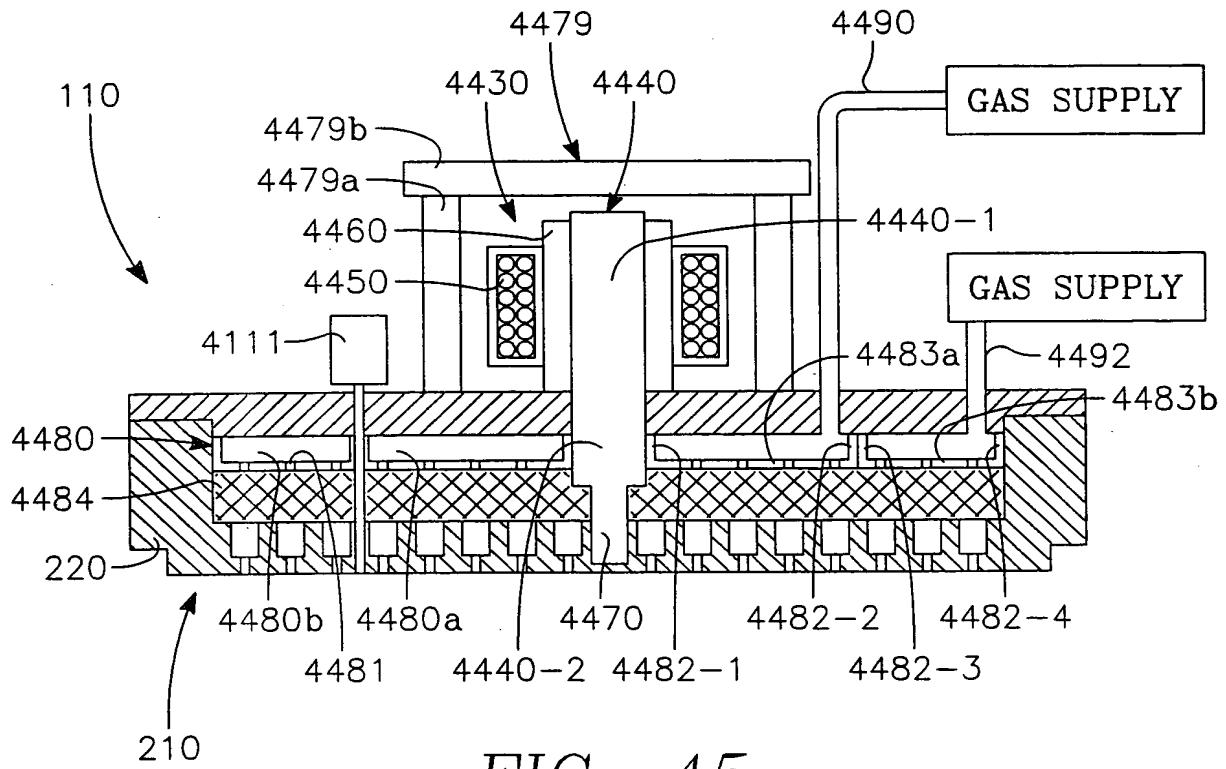


FIG. 45

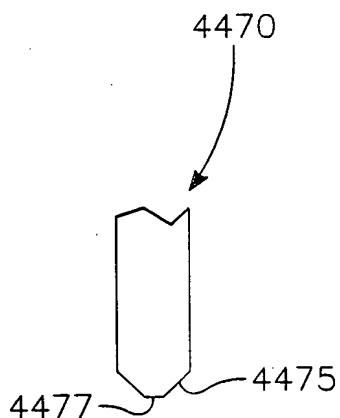


FIG. 46

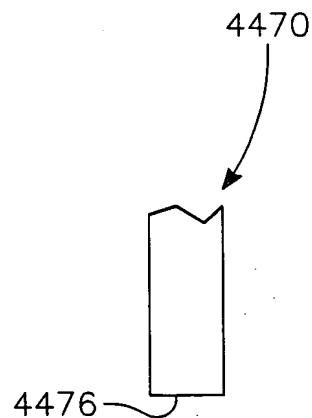


FIG. 47

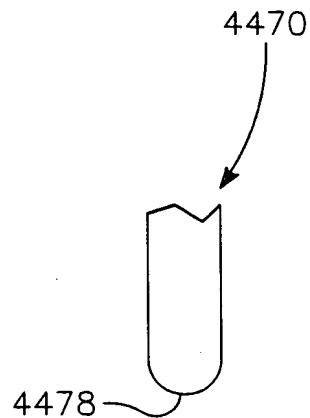


FIG. 48

42/85

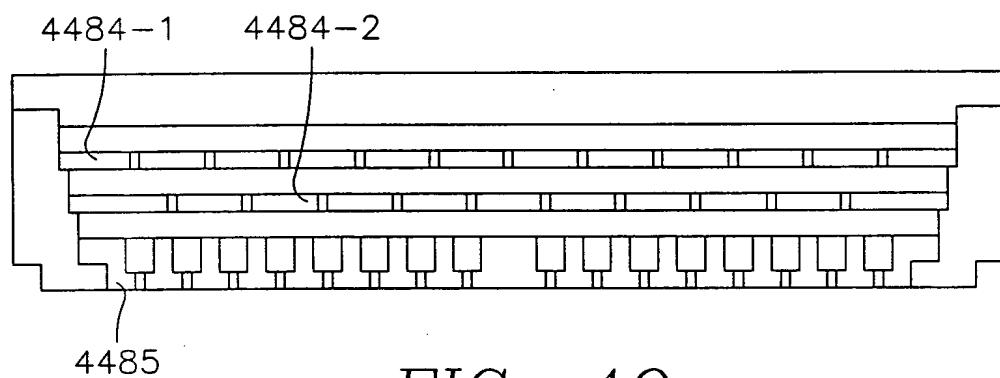


FIG. 49

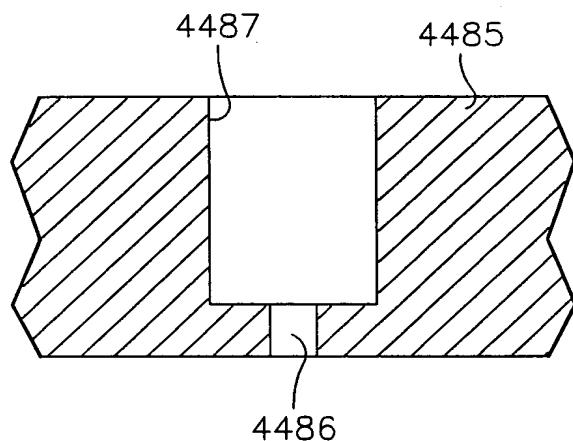


FIG. 50

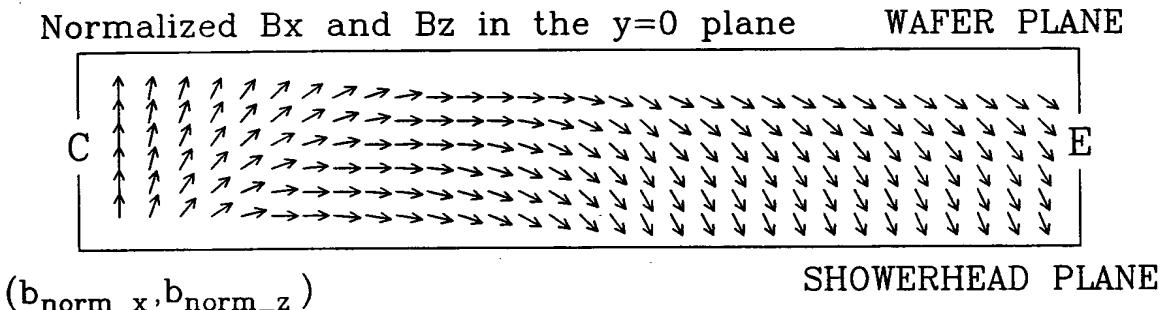


FIG. 51

- Br measured = 7 gauss at wafer plane, 1 in. off-center (peak)

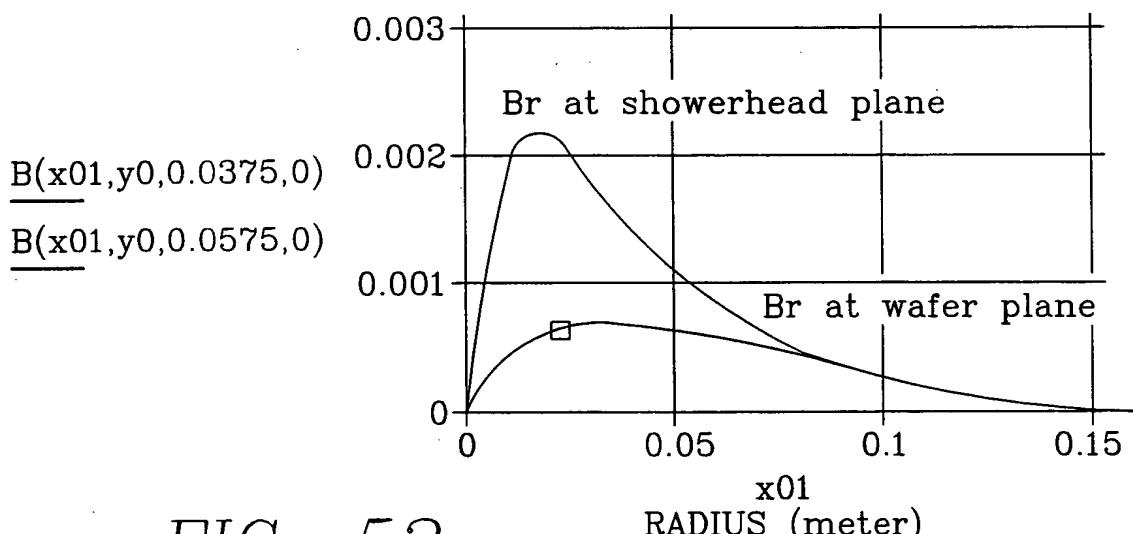


FIG. 52

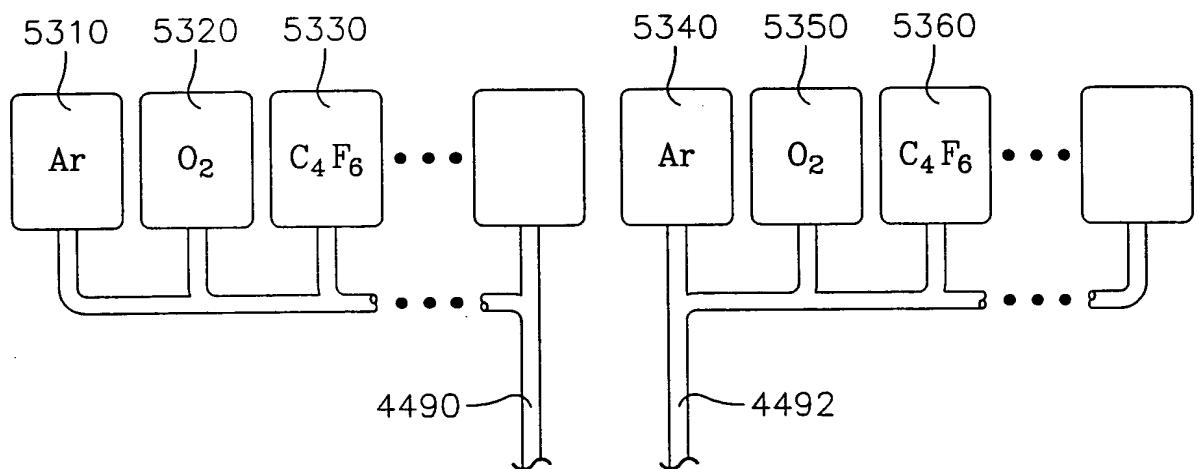


FIG. 53

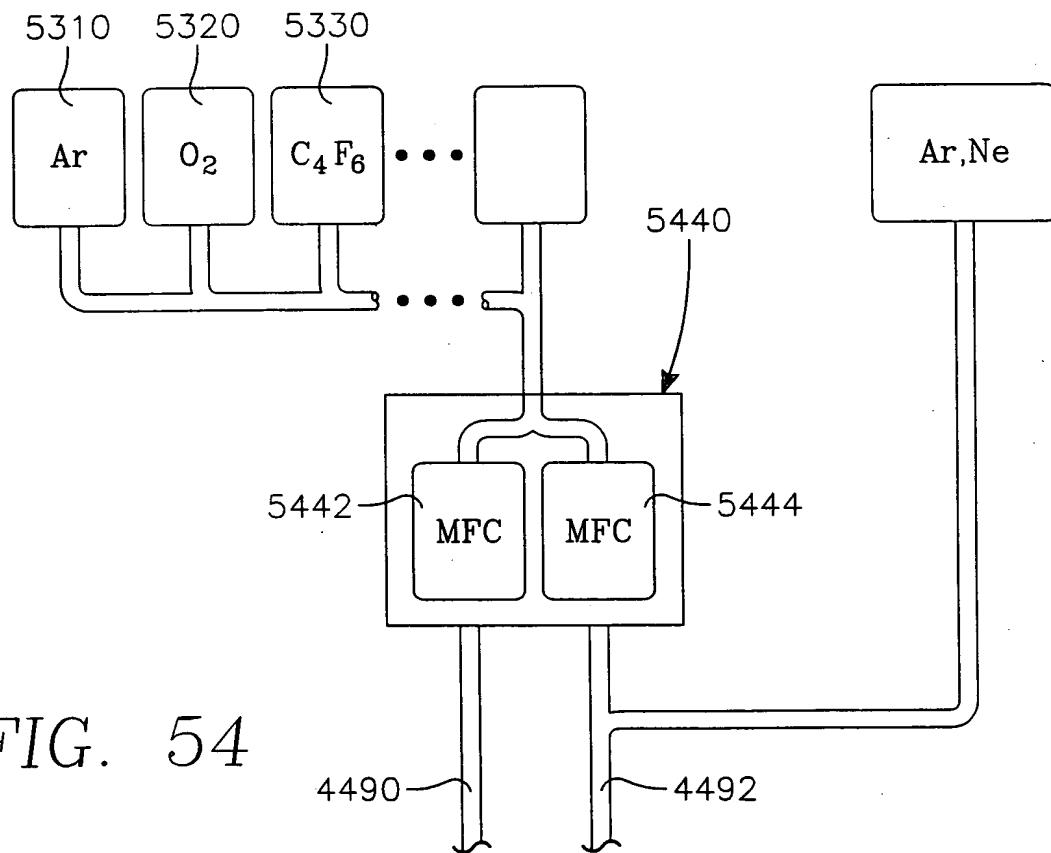


FIG. 54

45/85

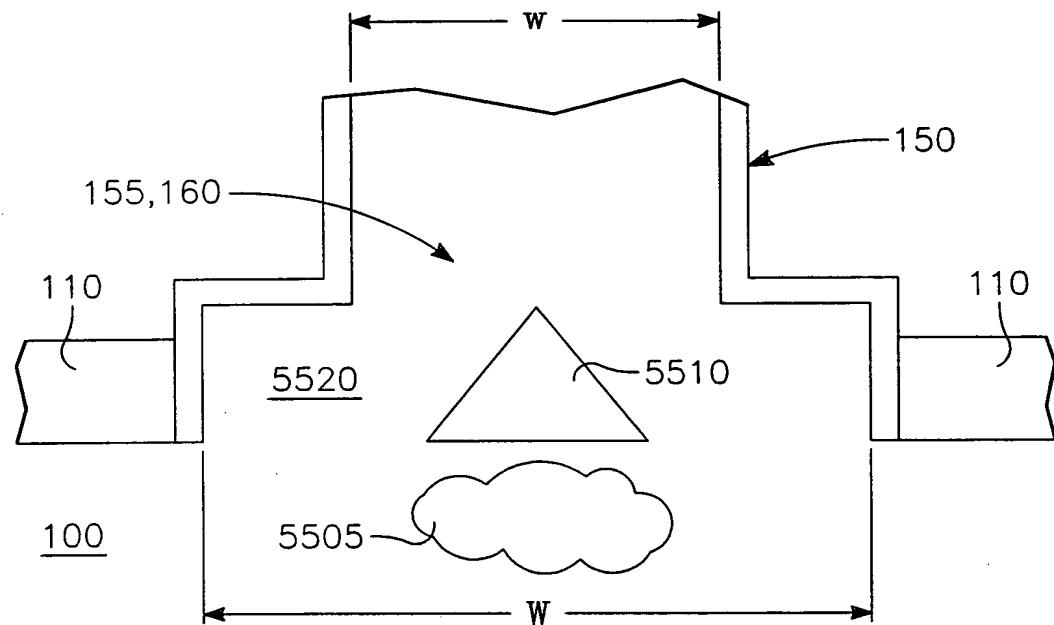


FIG. 55A

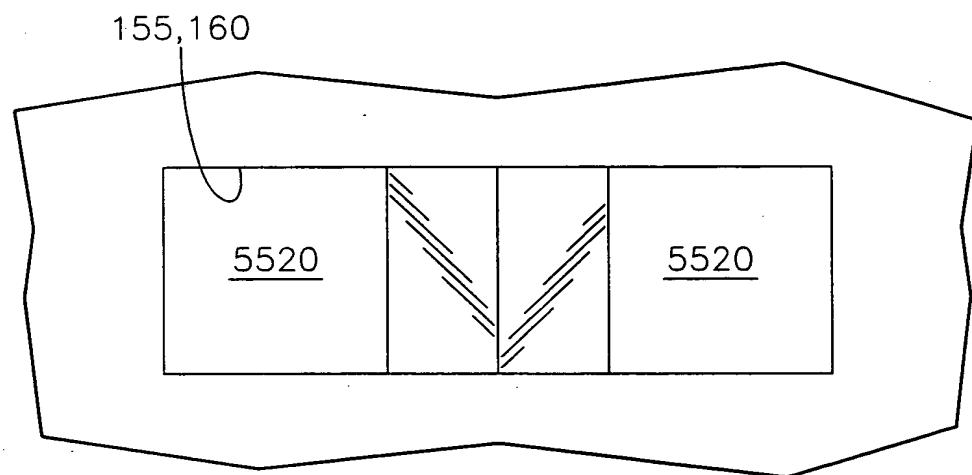


FIG. 55B

46/85

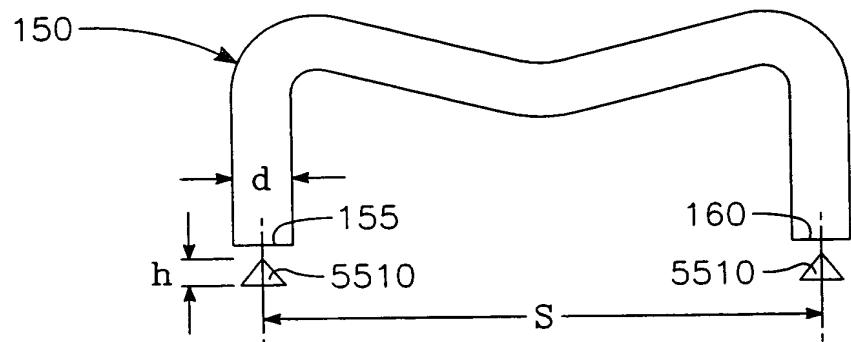


FIG. 56A

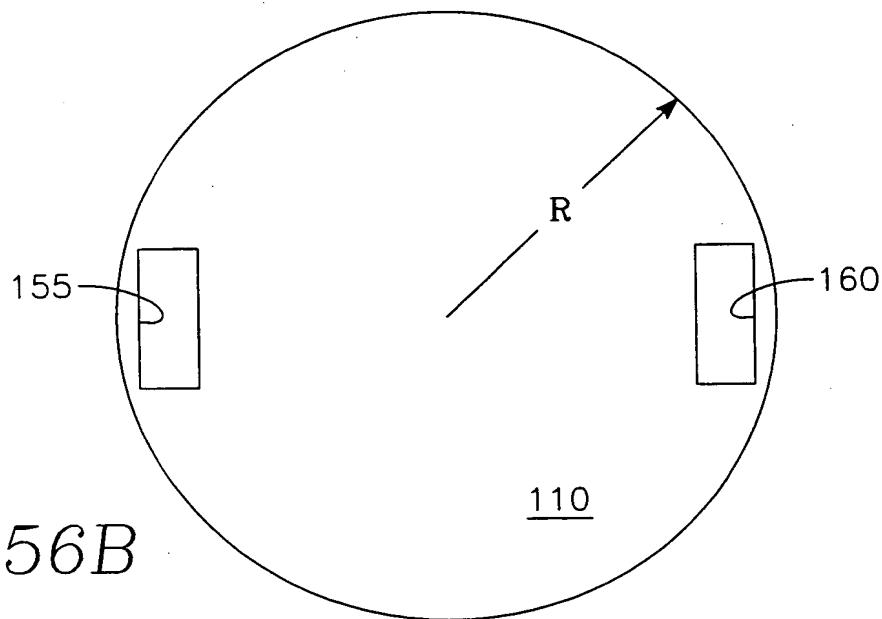


FIG. 56B

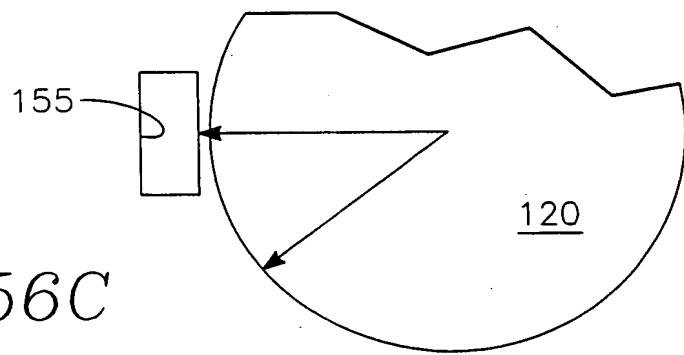


FIG. 56C

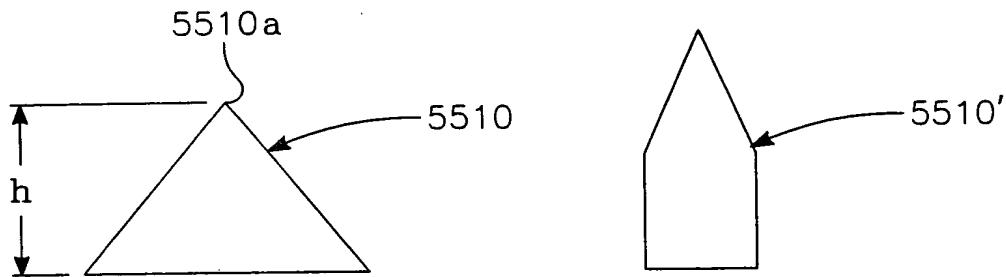


FIG. 57

FIG. 58

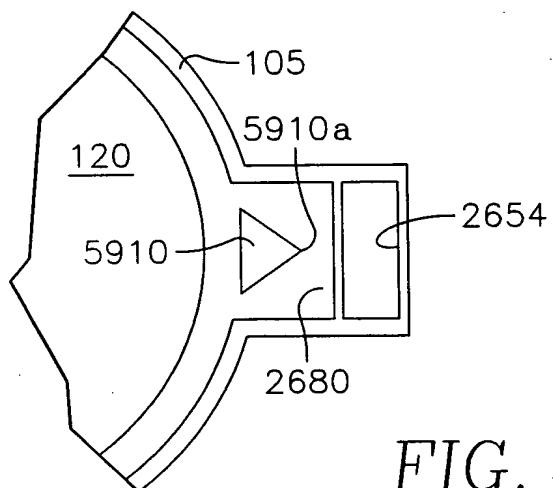


FIG. 59A

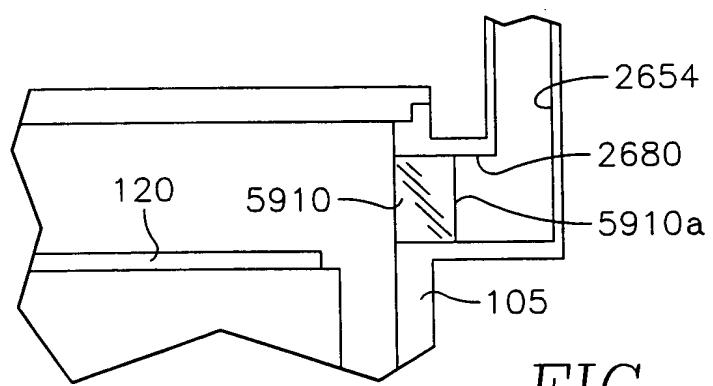


FIG. 59B

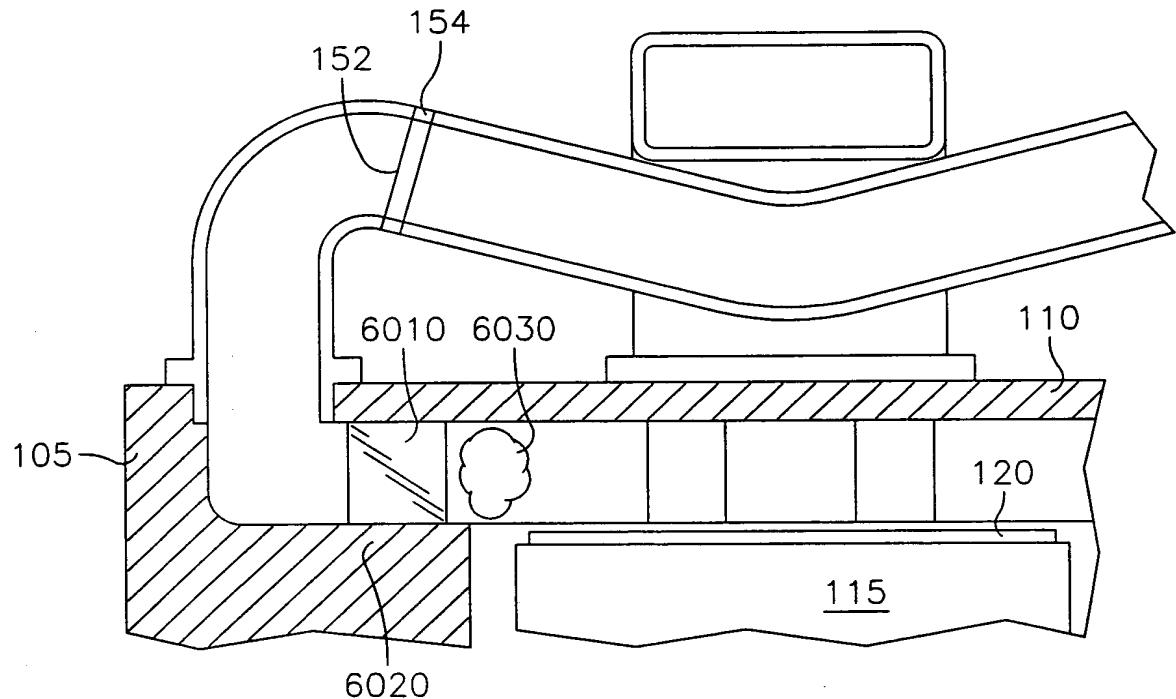


FIG. 60

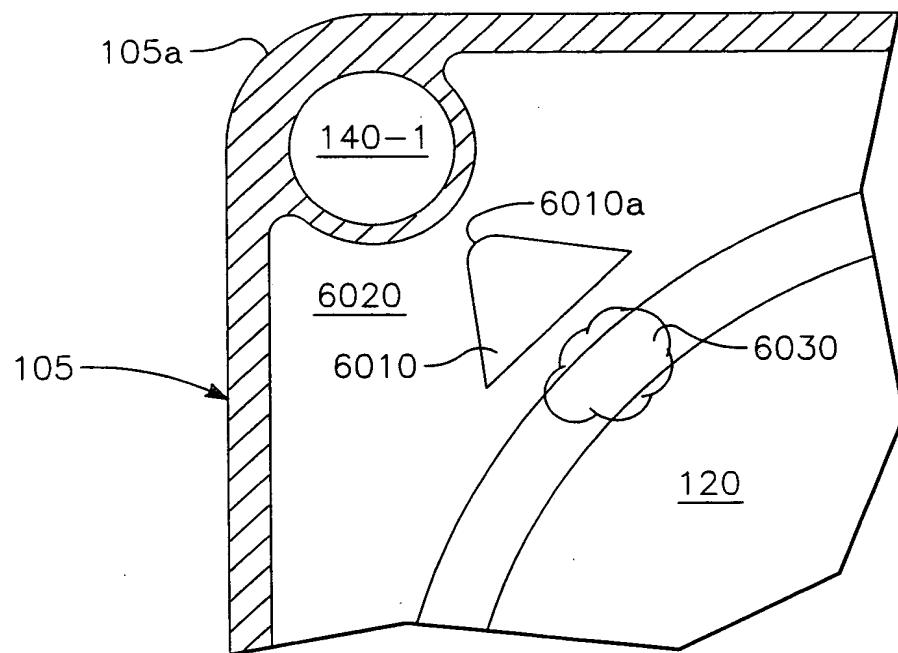


FIG. 61

49/85

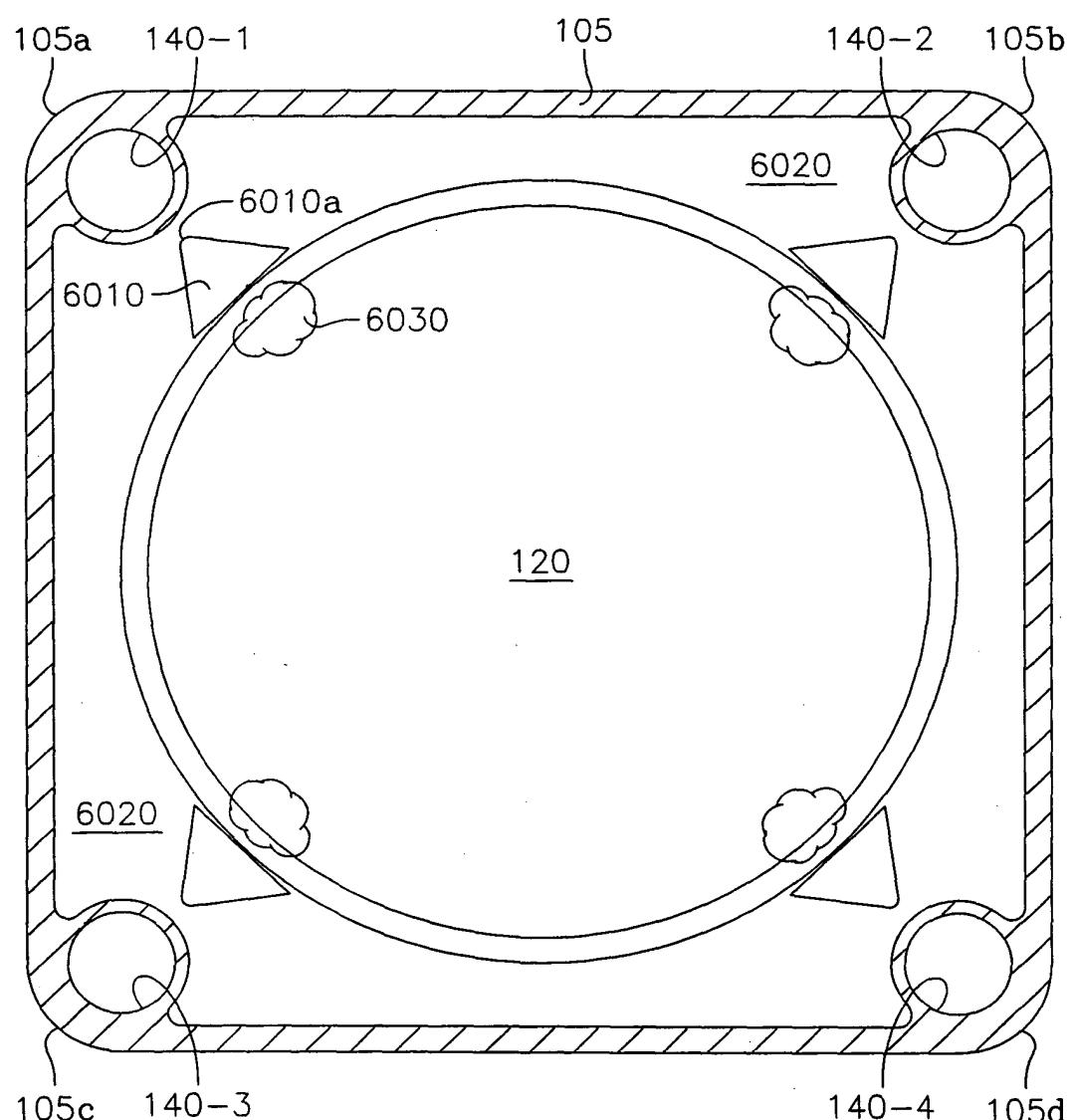


FIG. 62

50/85

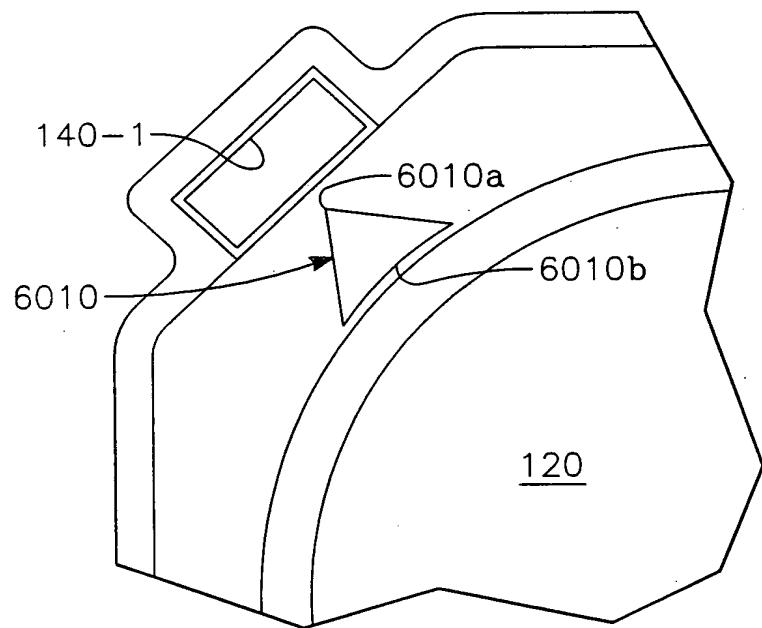


FIG. 63

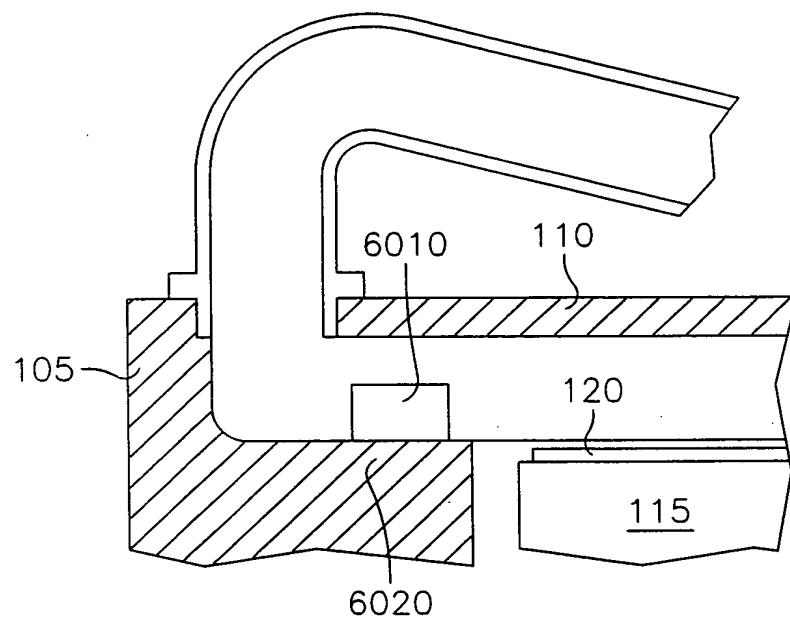
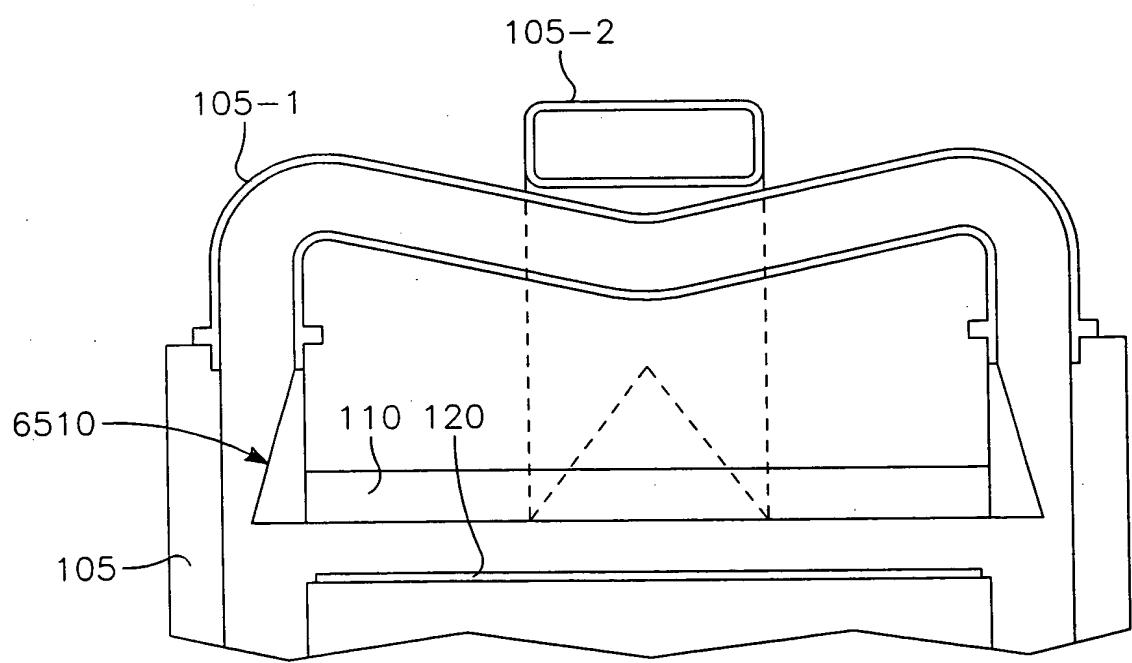
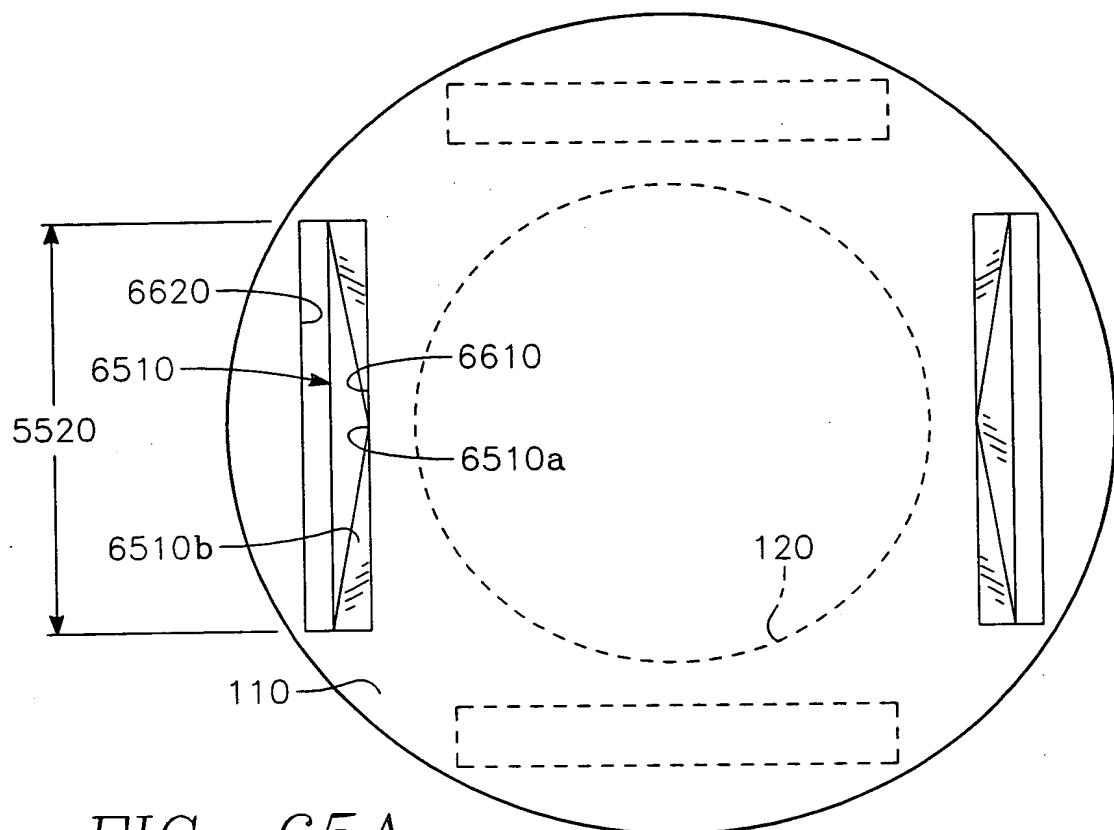


FIG. 64



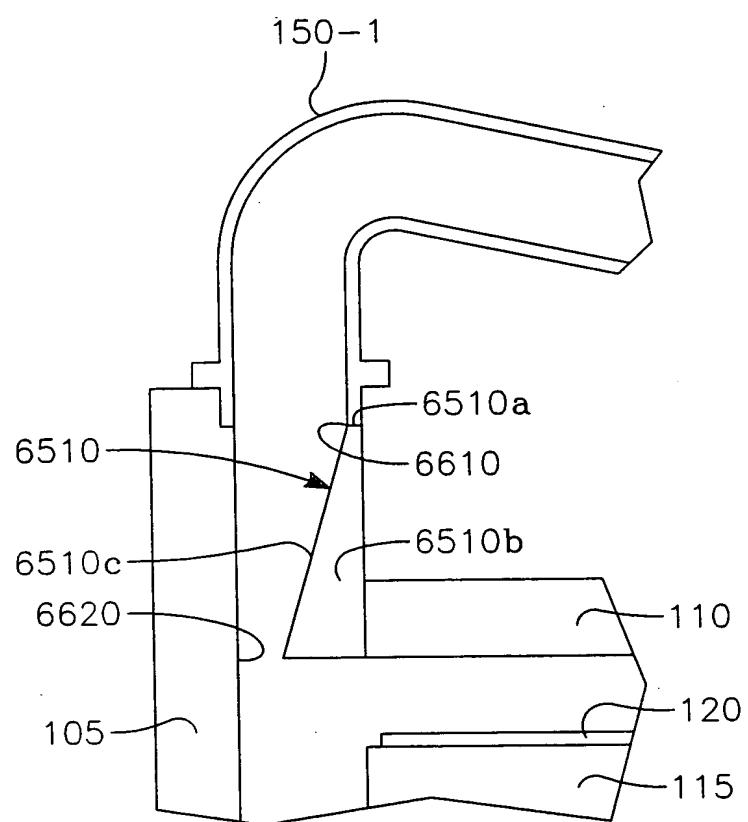


FIG. 66

53/85

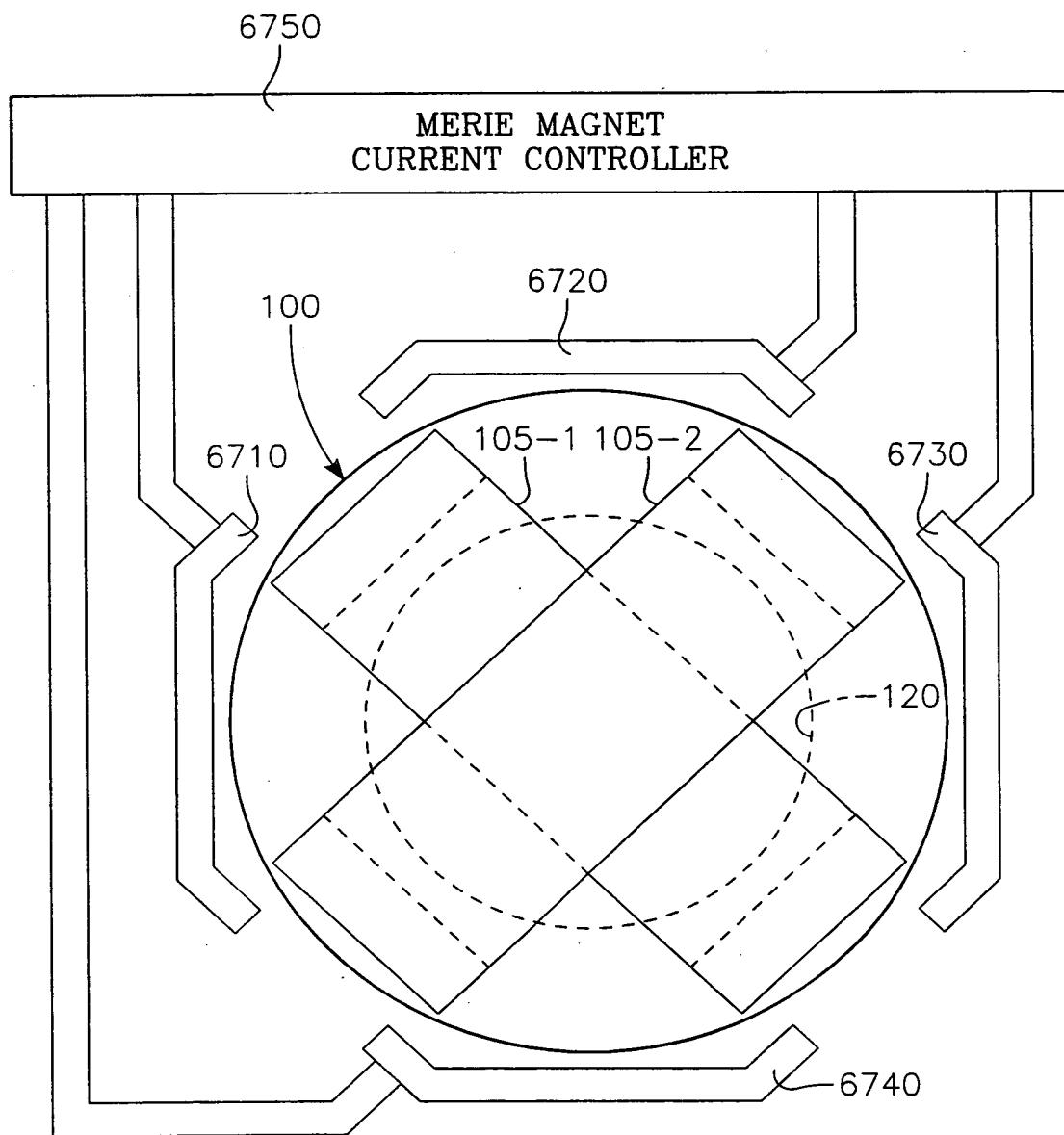


FIG. 67

54/85

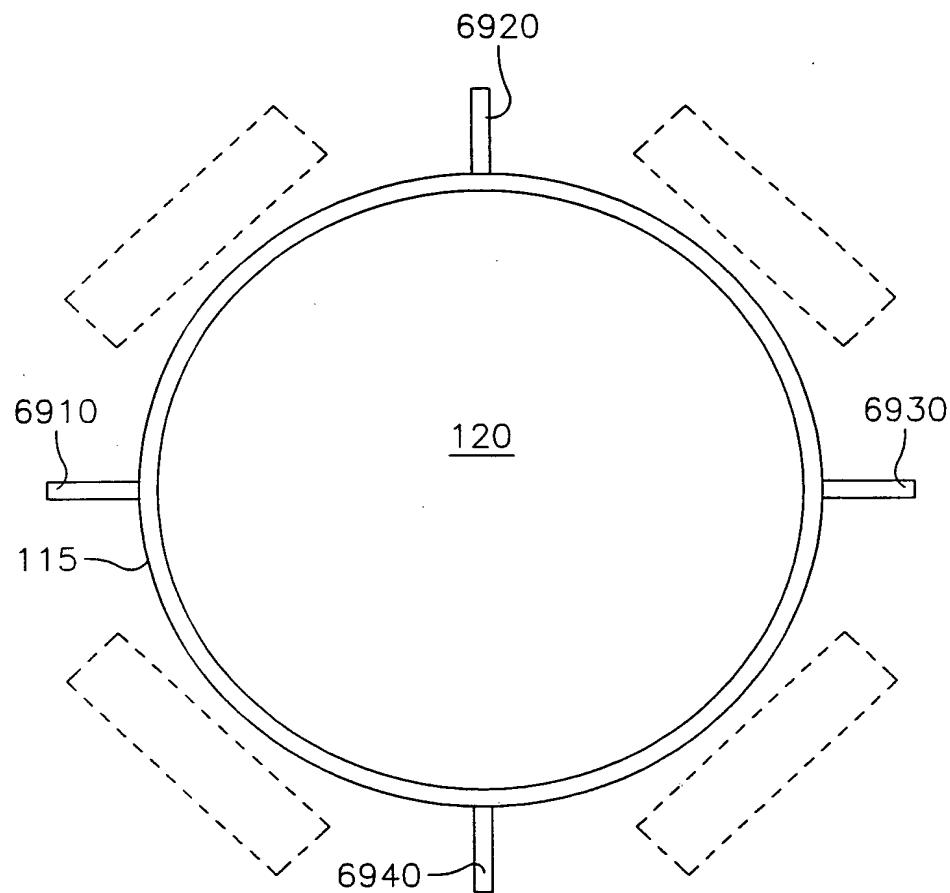


FIG. 68

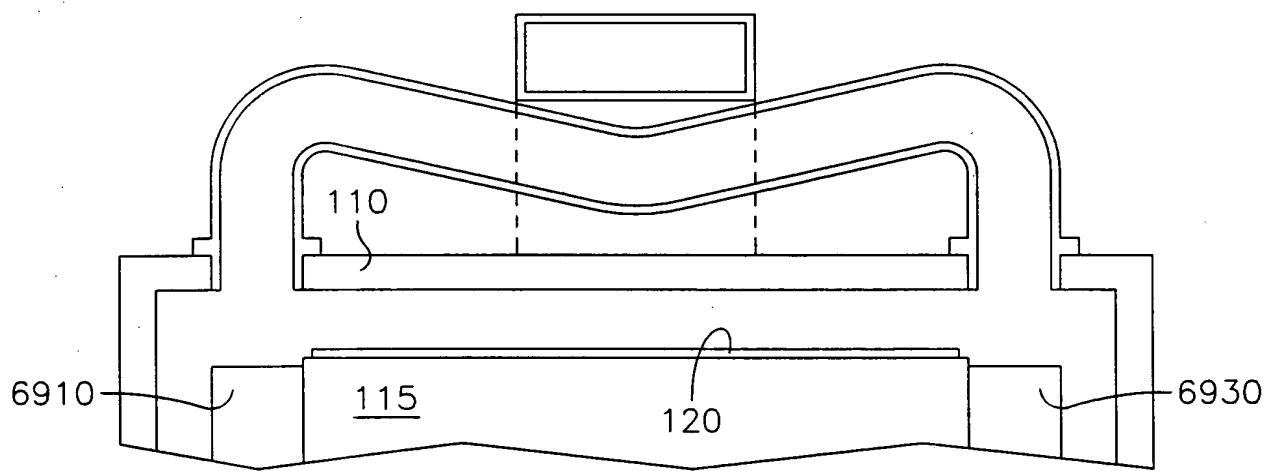
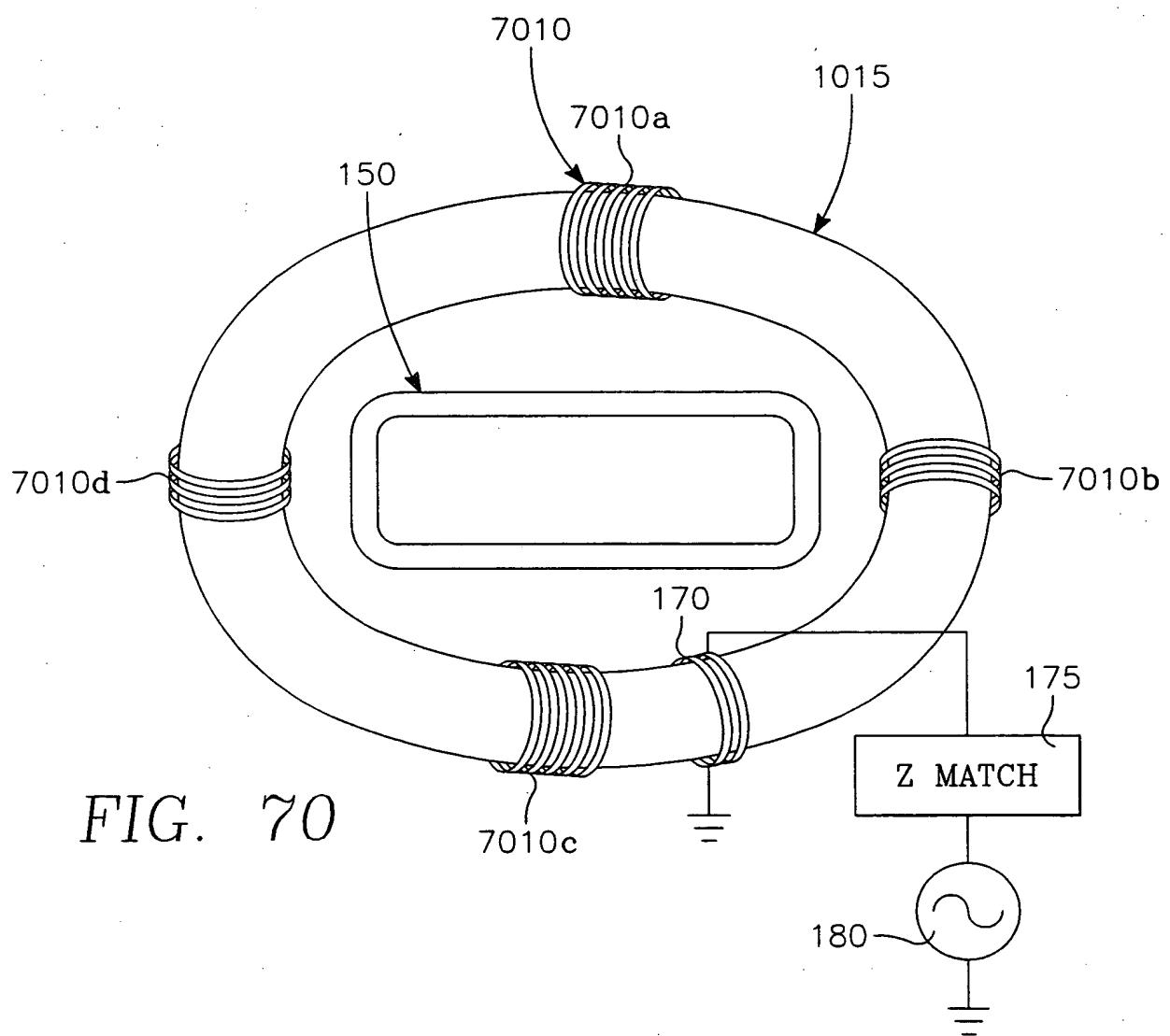
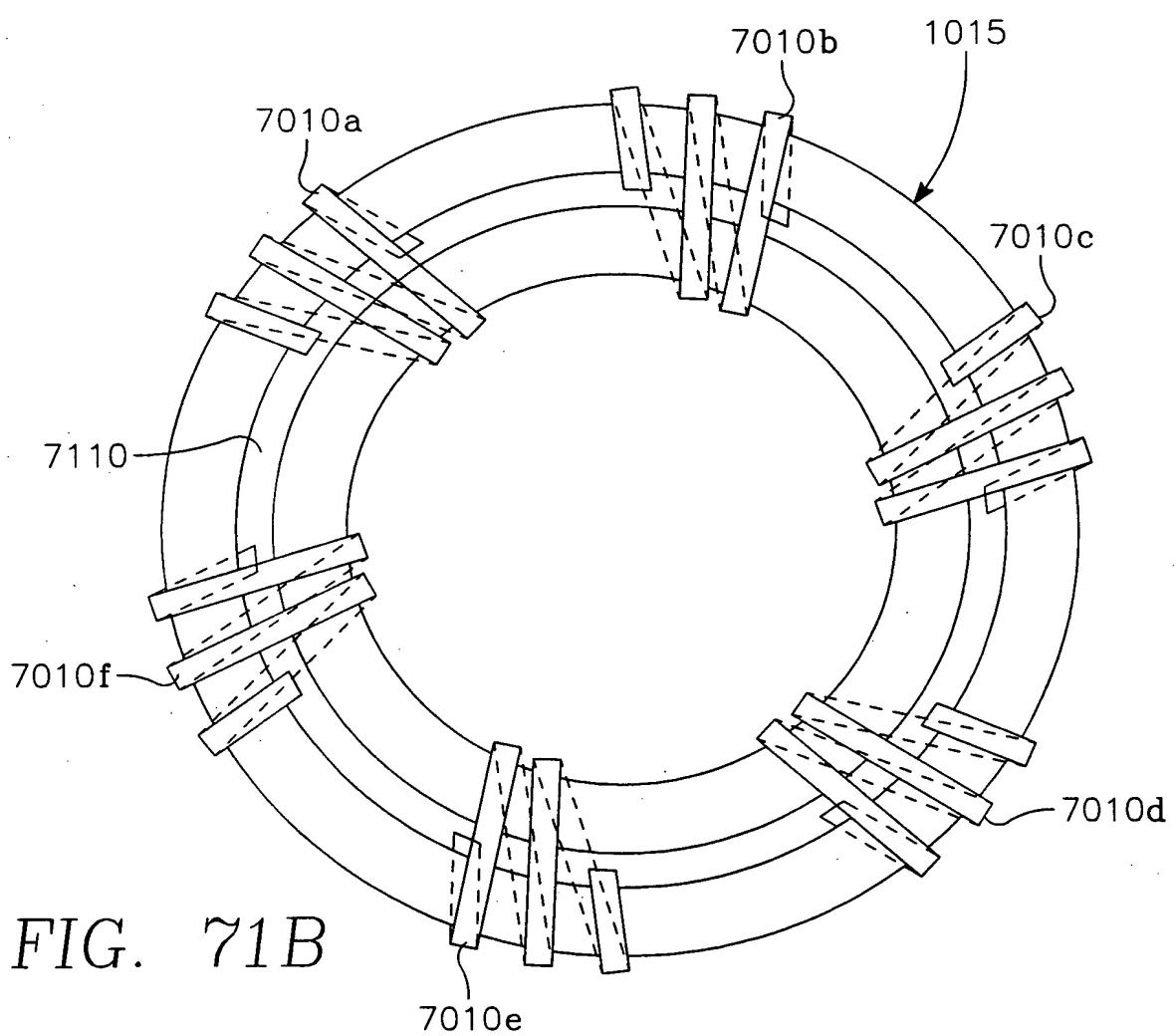
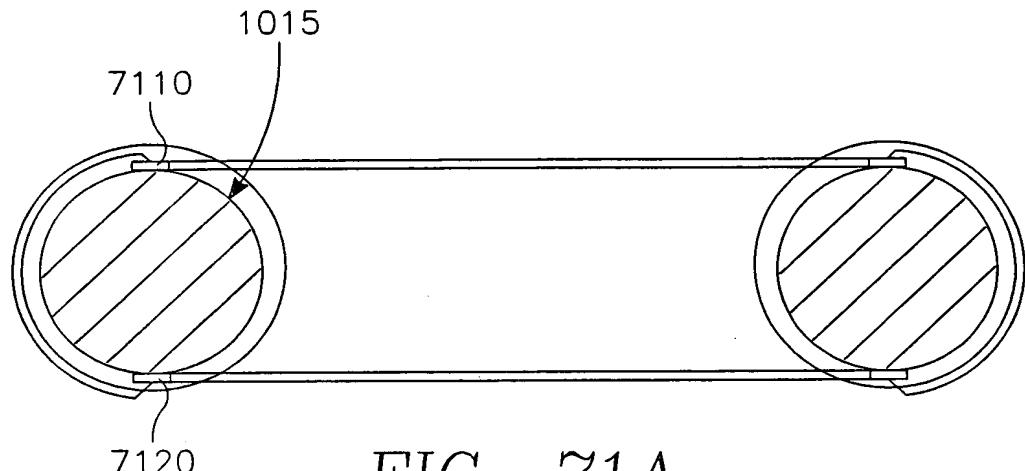


FIG. 69





57/85

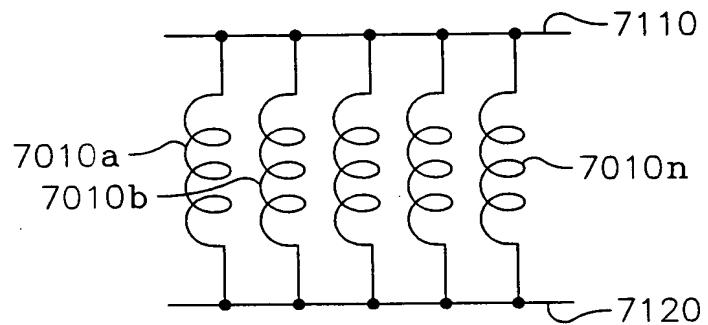


FIG. 72

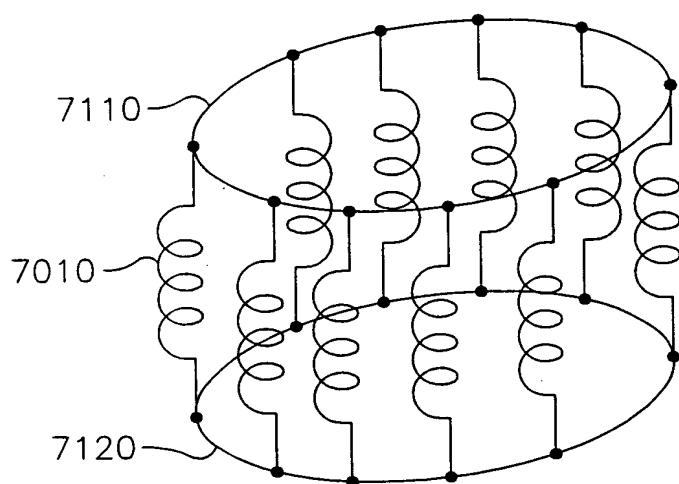


FIG. 73

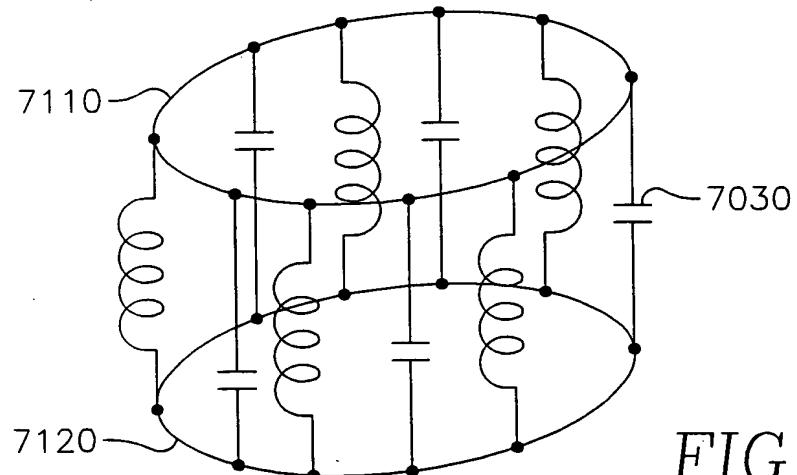


FIG. 74

58/85

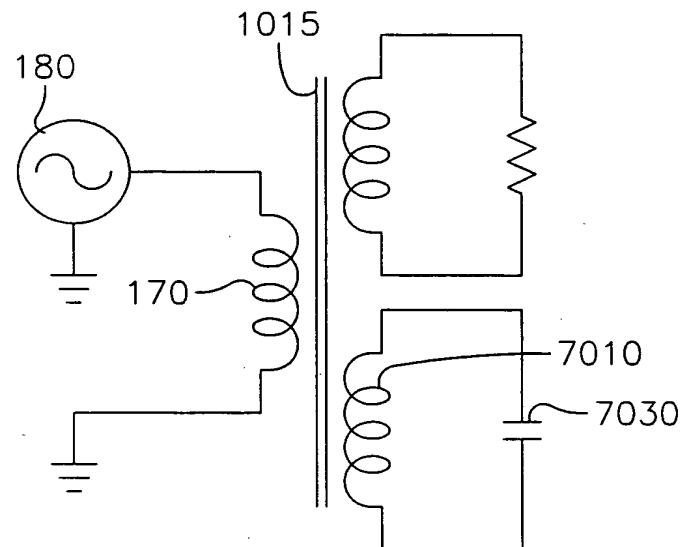


FIG. 75

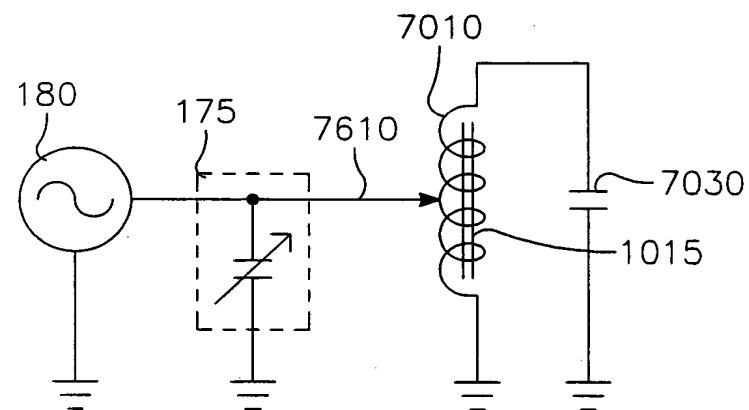
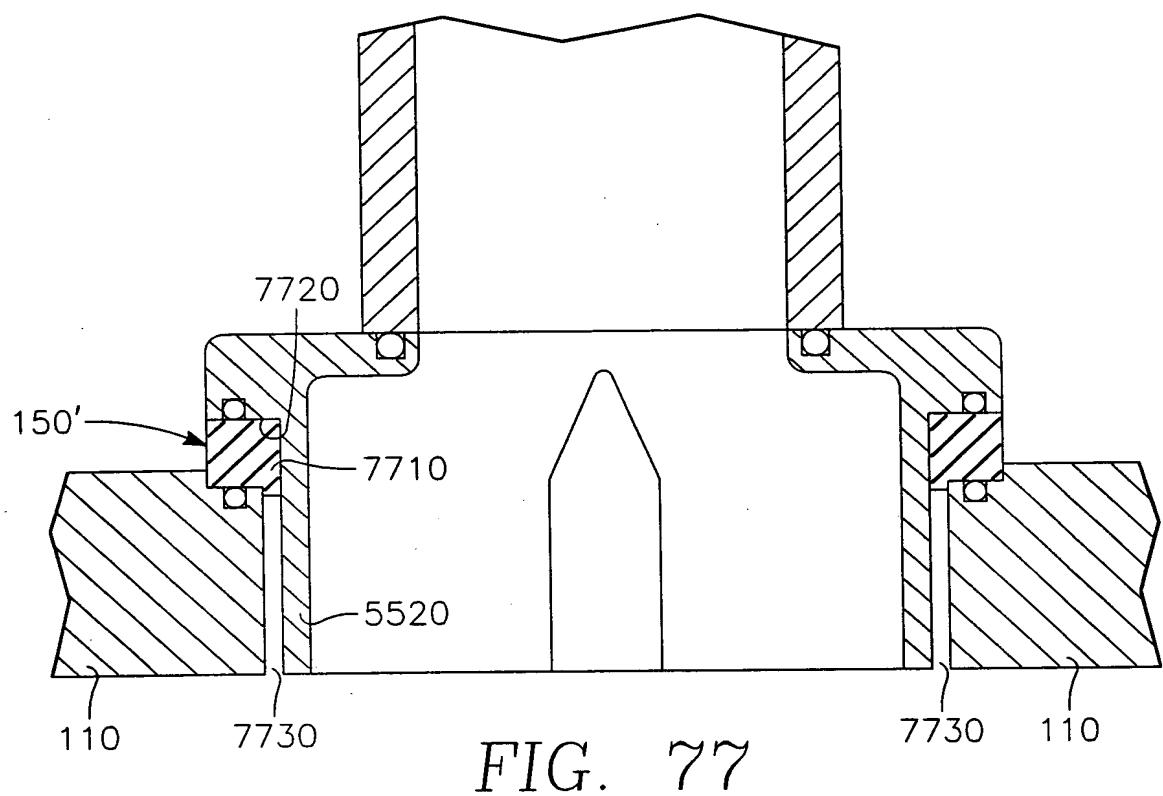


FIG. 76

59/85



60/85

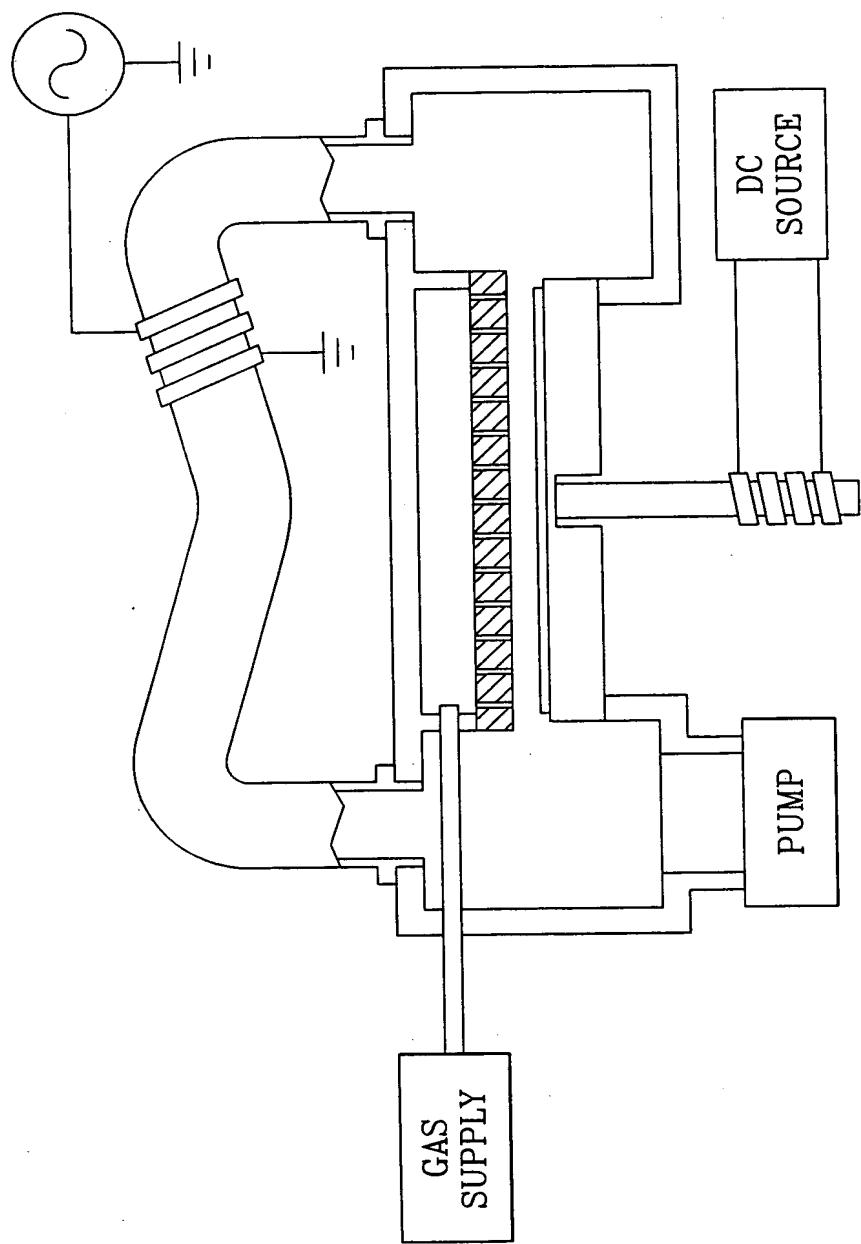


FIG. 78

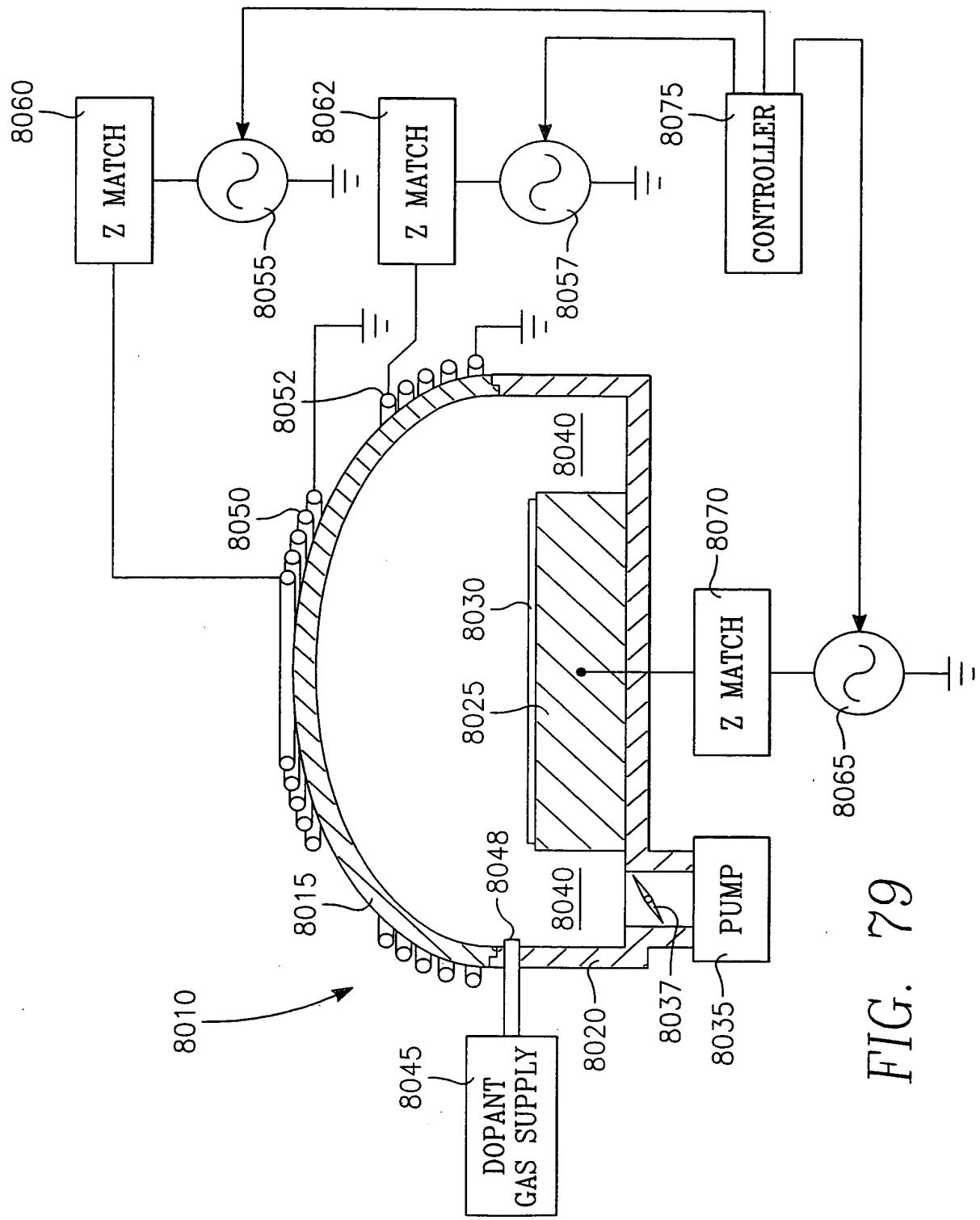


FIG. 79

62/85

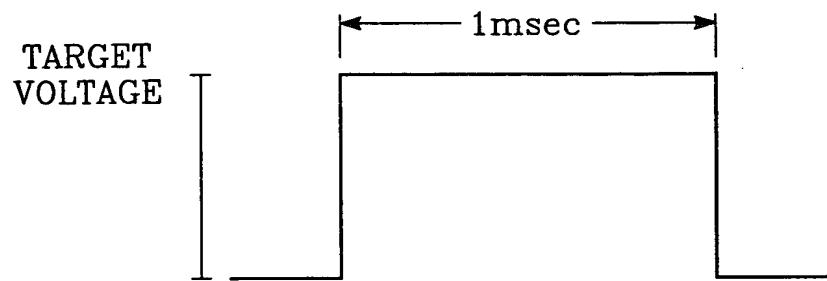


FIG. 80A

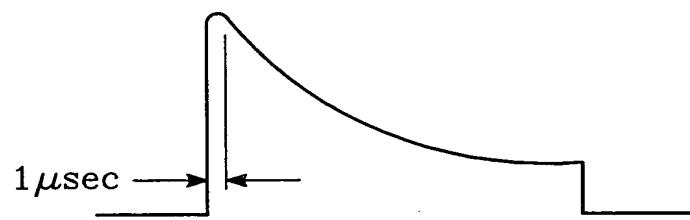


FIG. 80B

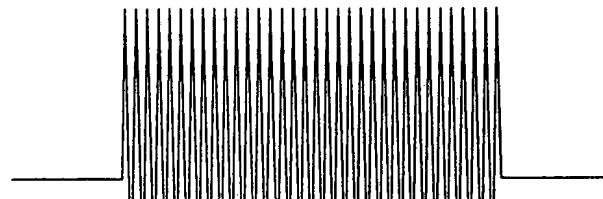
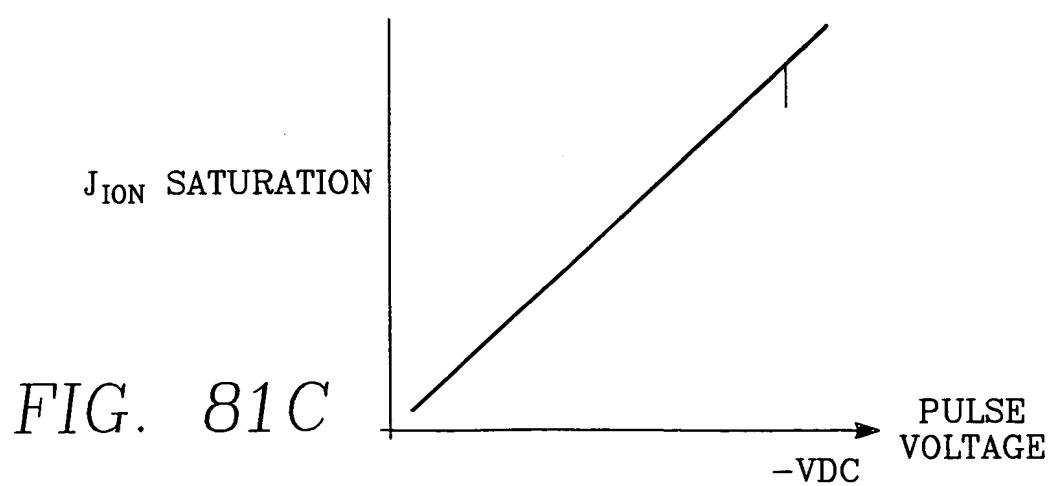
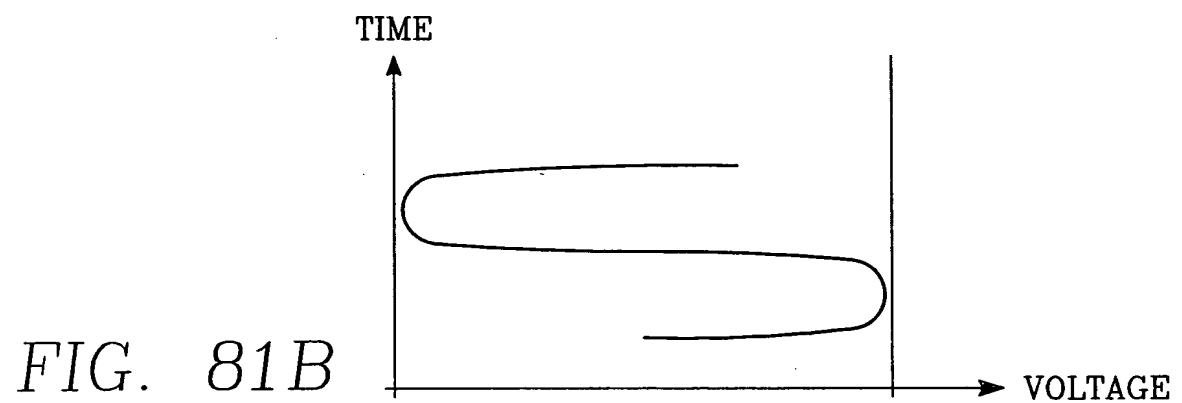
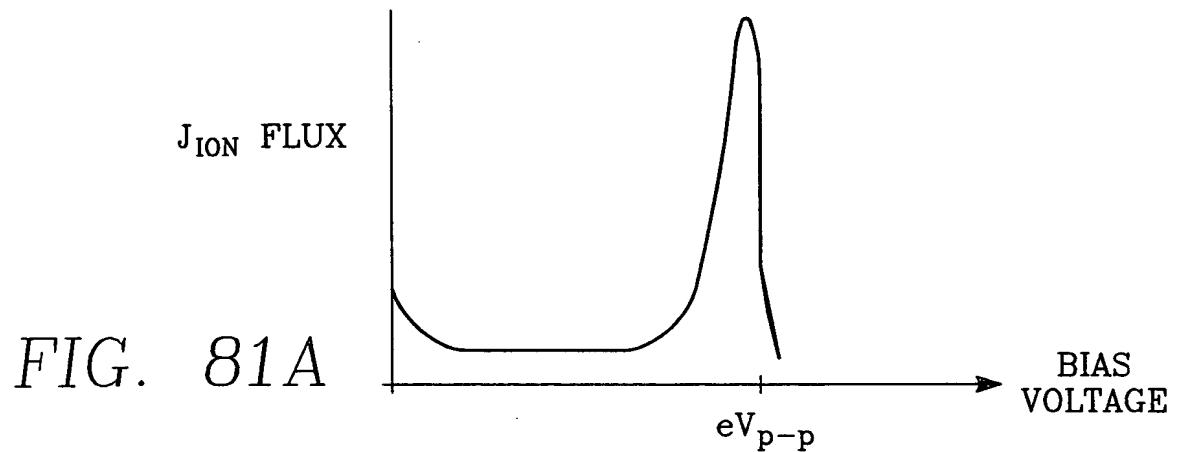


FIG. 80C

63/85



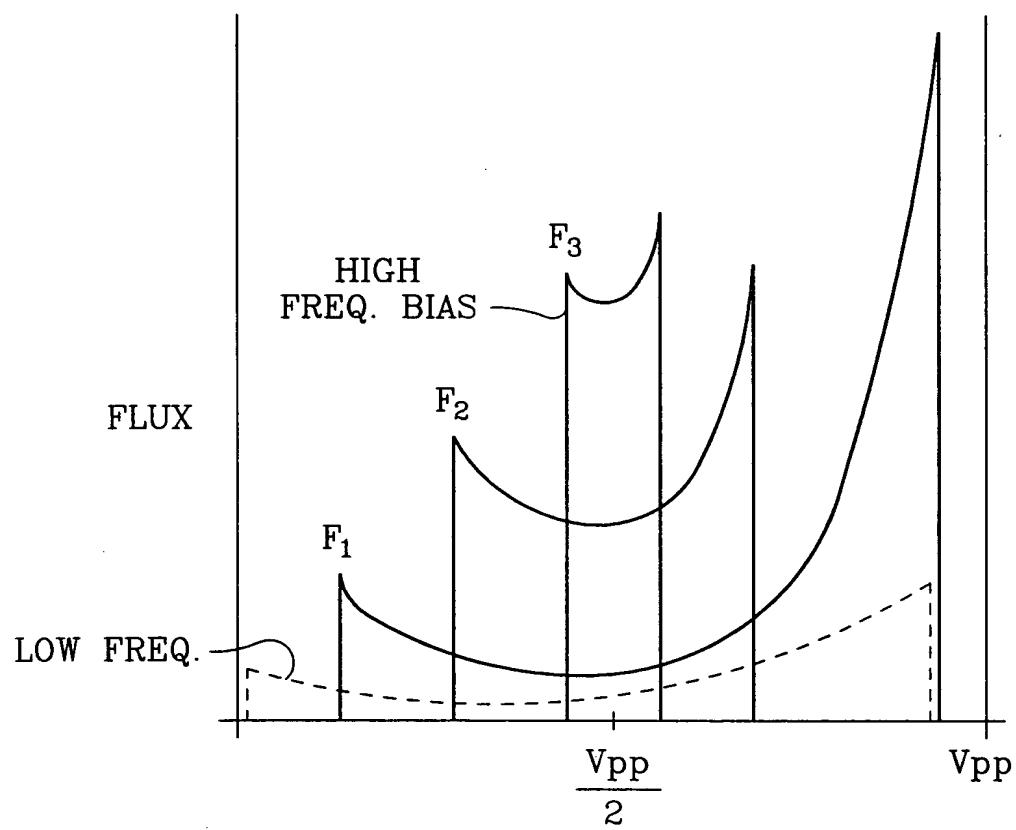


FIG. 81D

FIG. 82A  PUSH PULL

FIG. 82B  PUSH PULL

FIG. 82C  IN SYNC

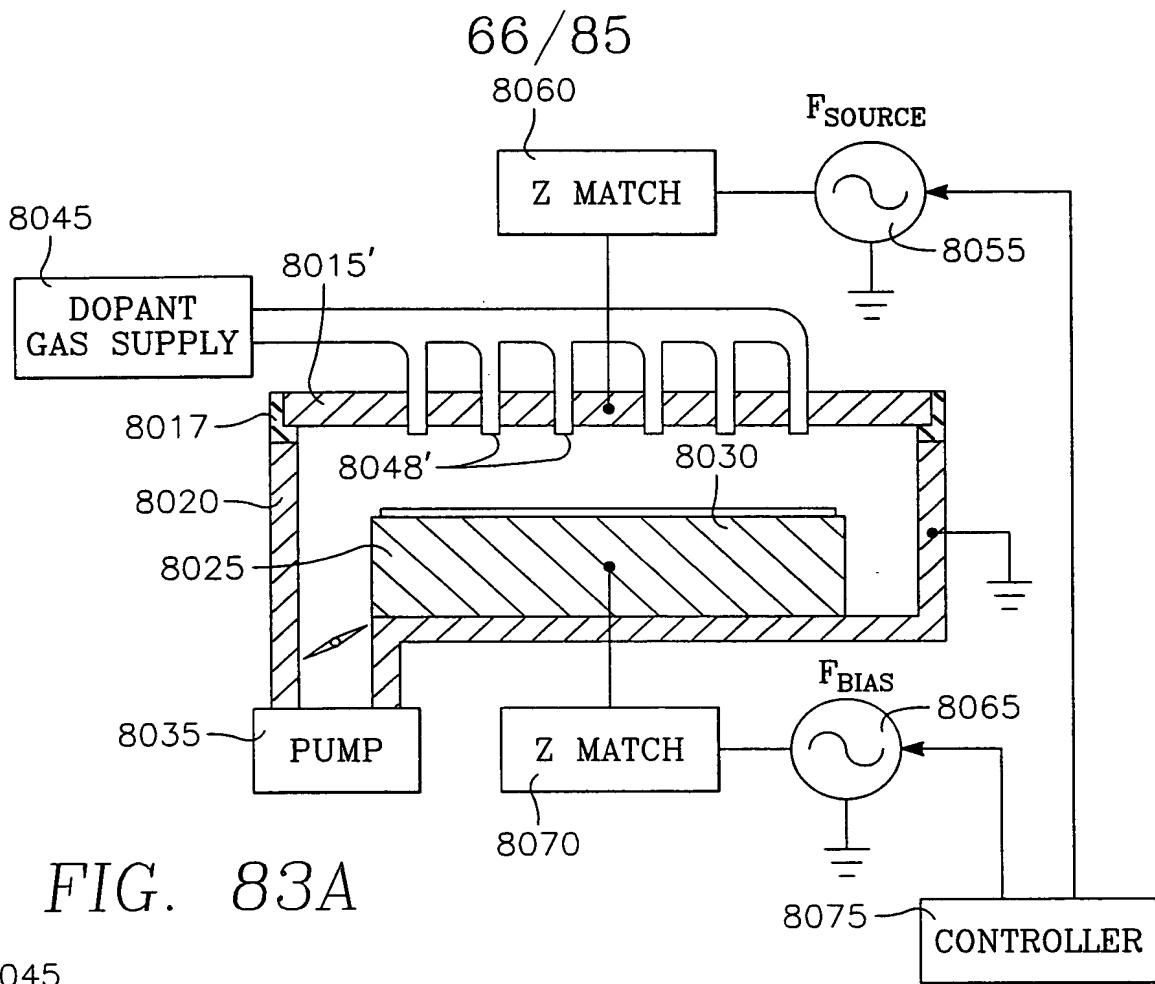
FIG. 82D  IN SYNC

FIG. 82E  SYMMETRIC

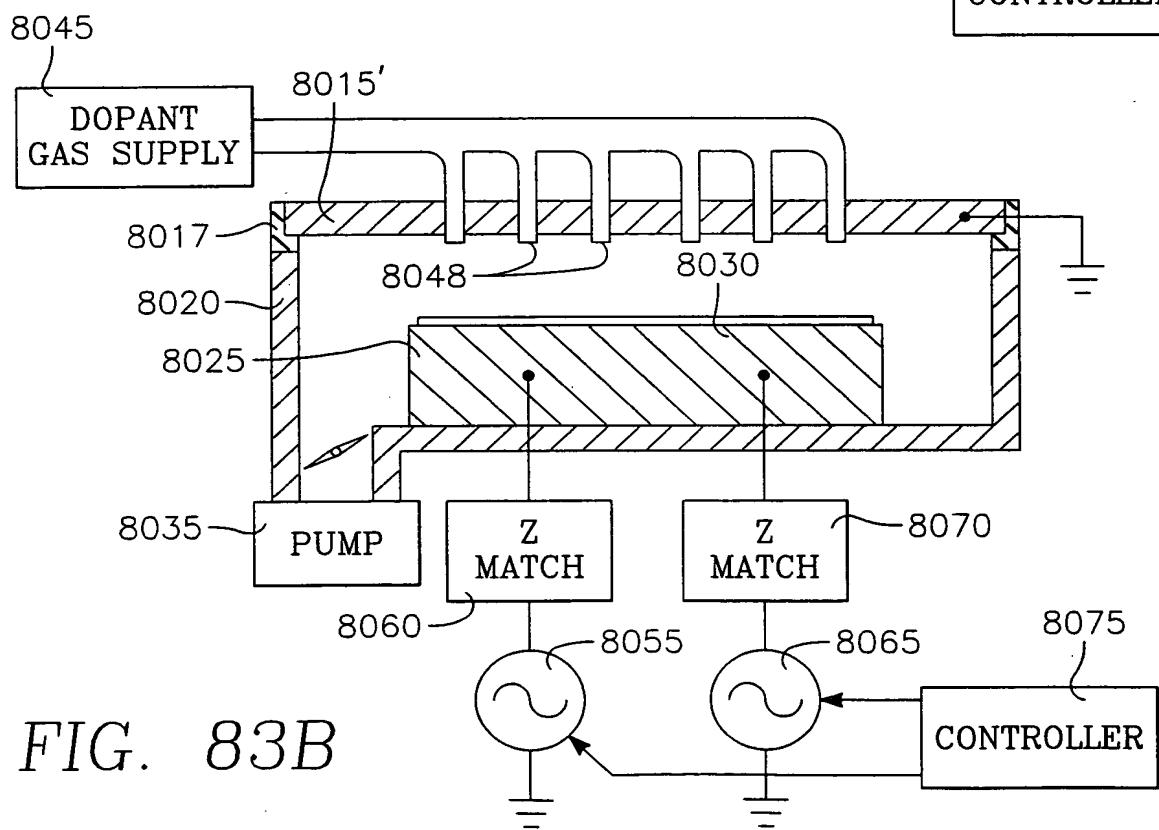
FIG. 82F  SYMMETRIC

FIG. 82G  NON-SYMMETRIC

FIG. 82H  NON-SYMMETRIC



*FIG. 83A*



*FIG. 83B*

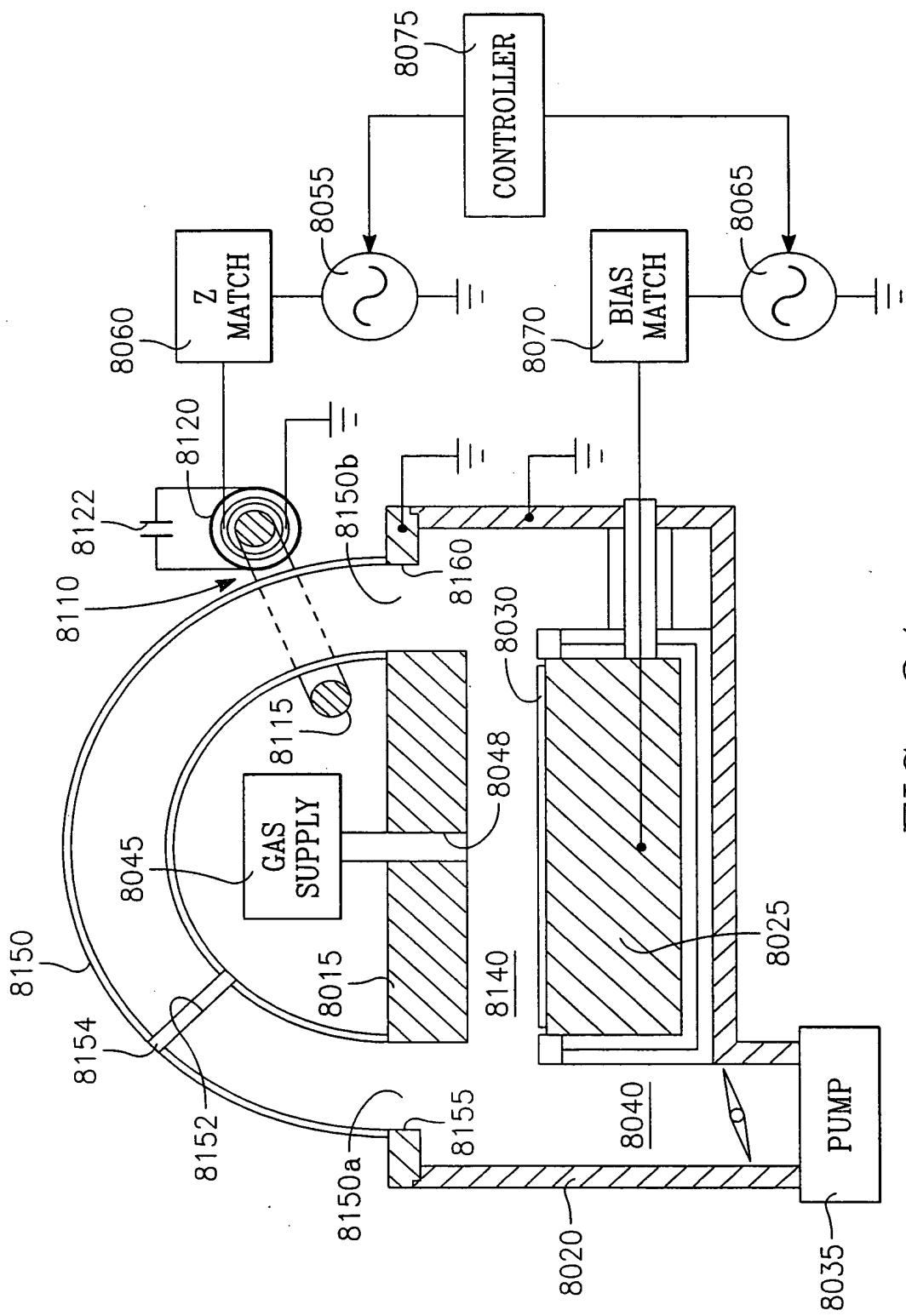


FIG. 84

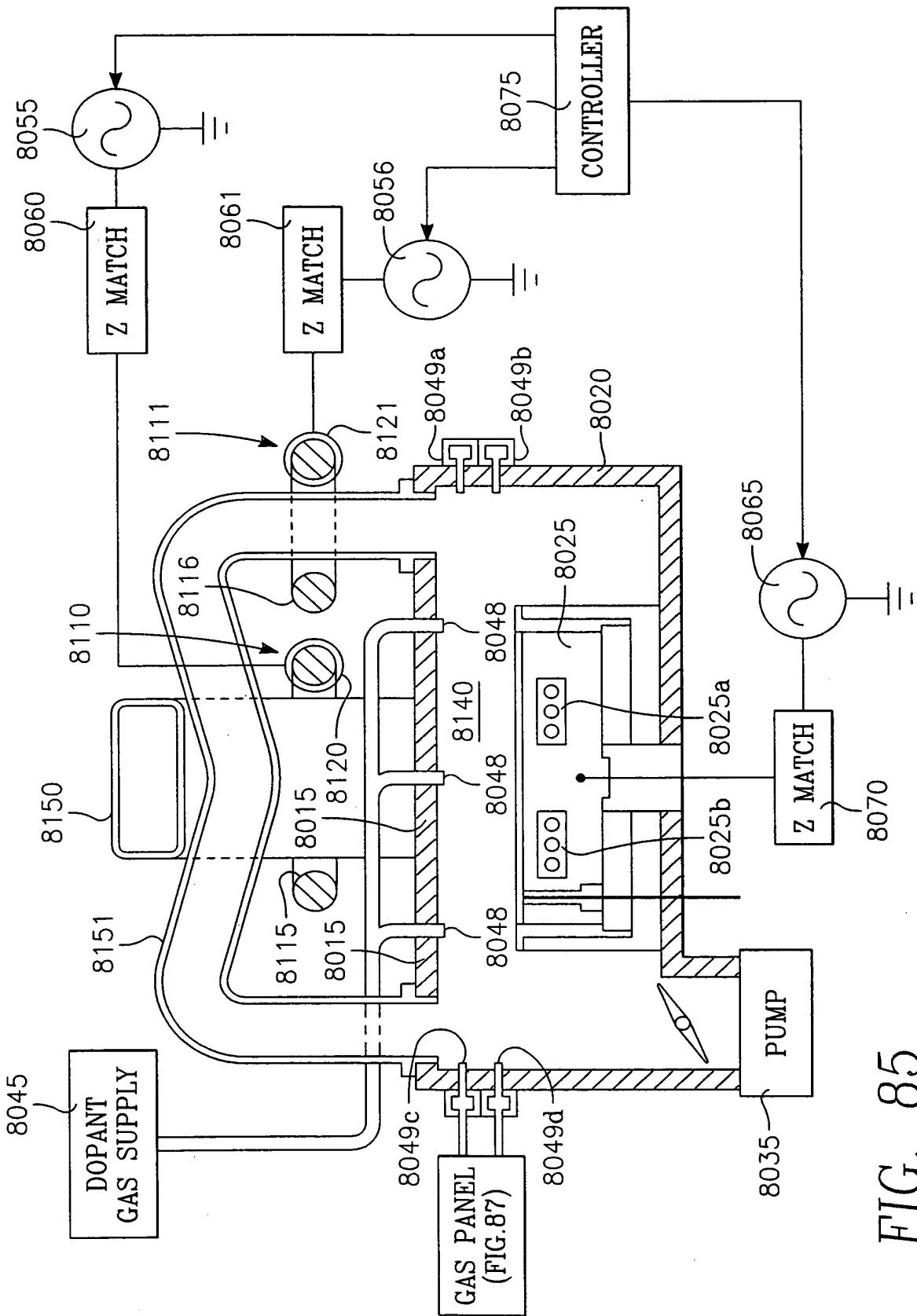


FIG. 85

69/85

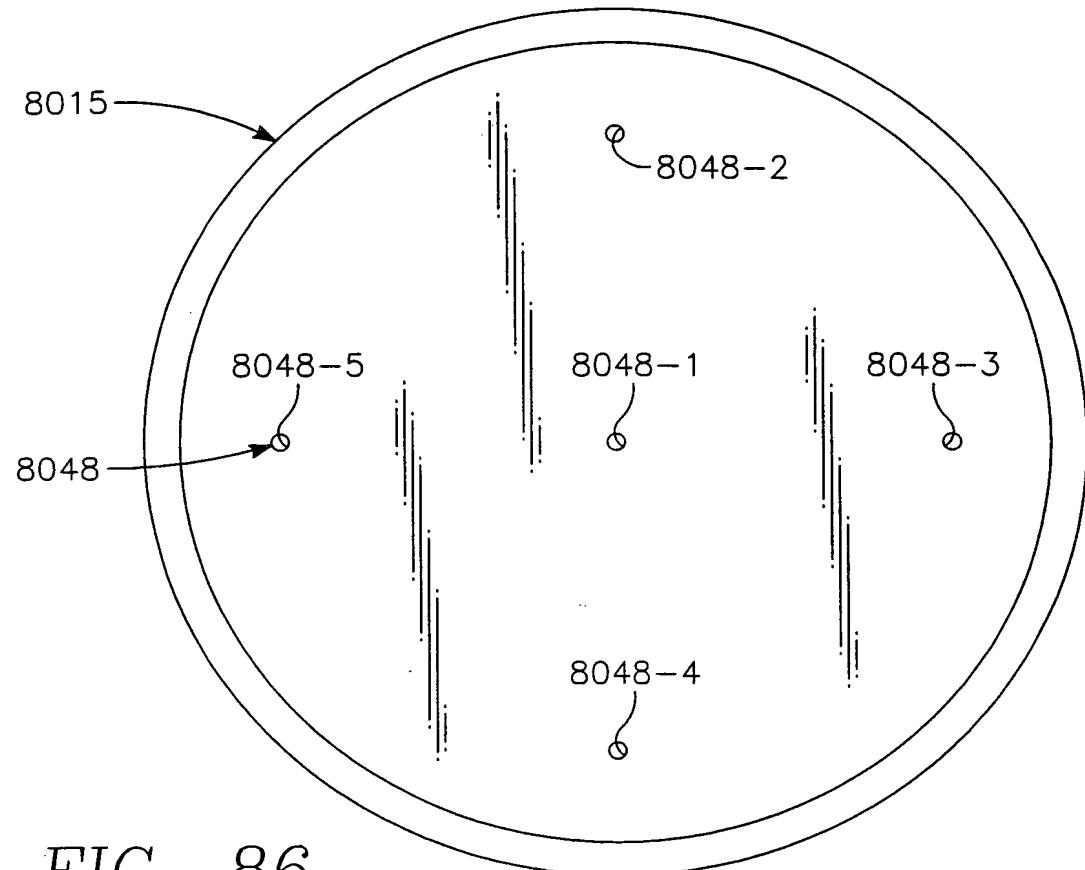


FIG. 86

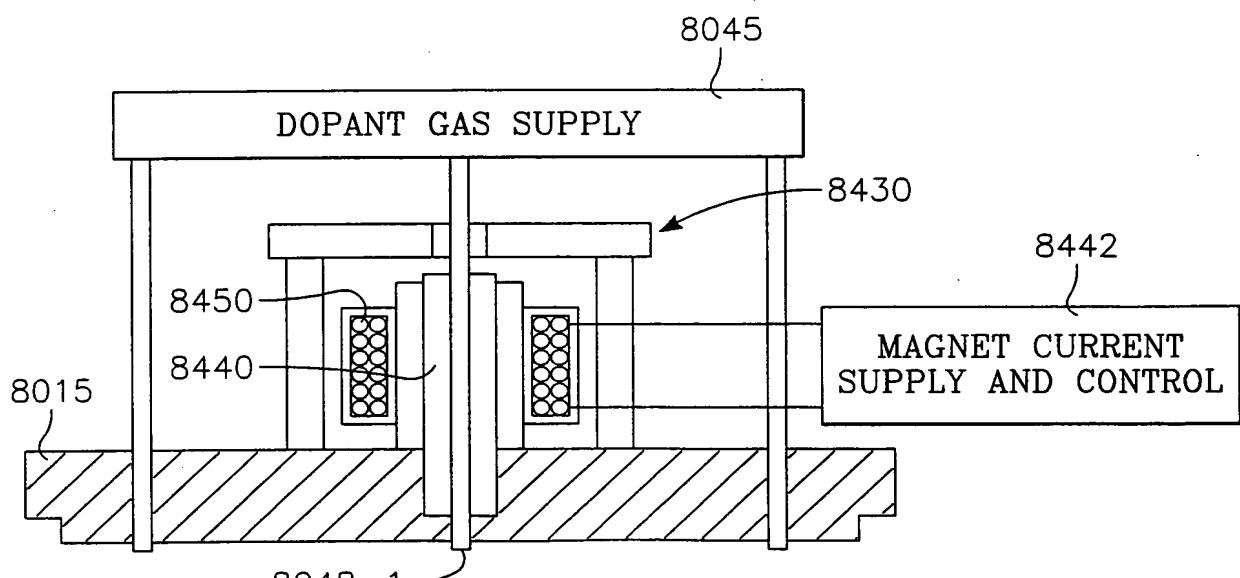


FIG. 88

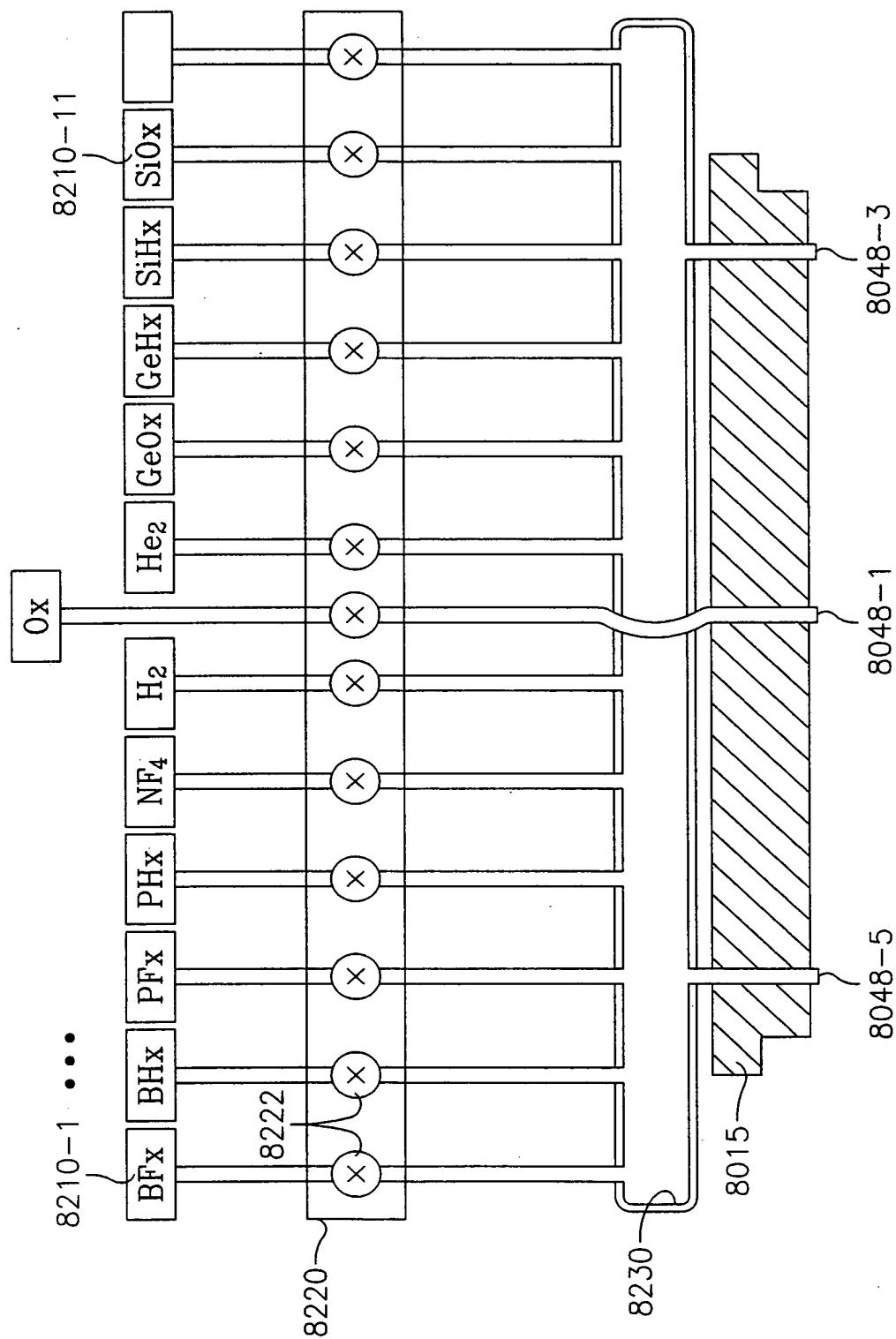


FIG. 87

71/85

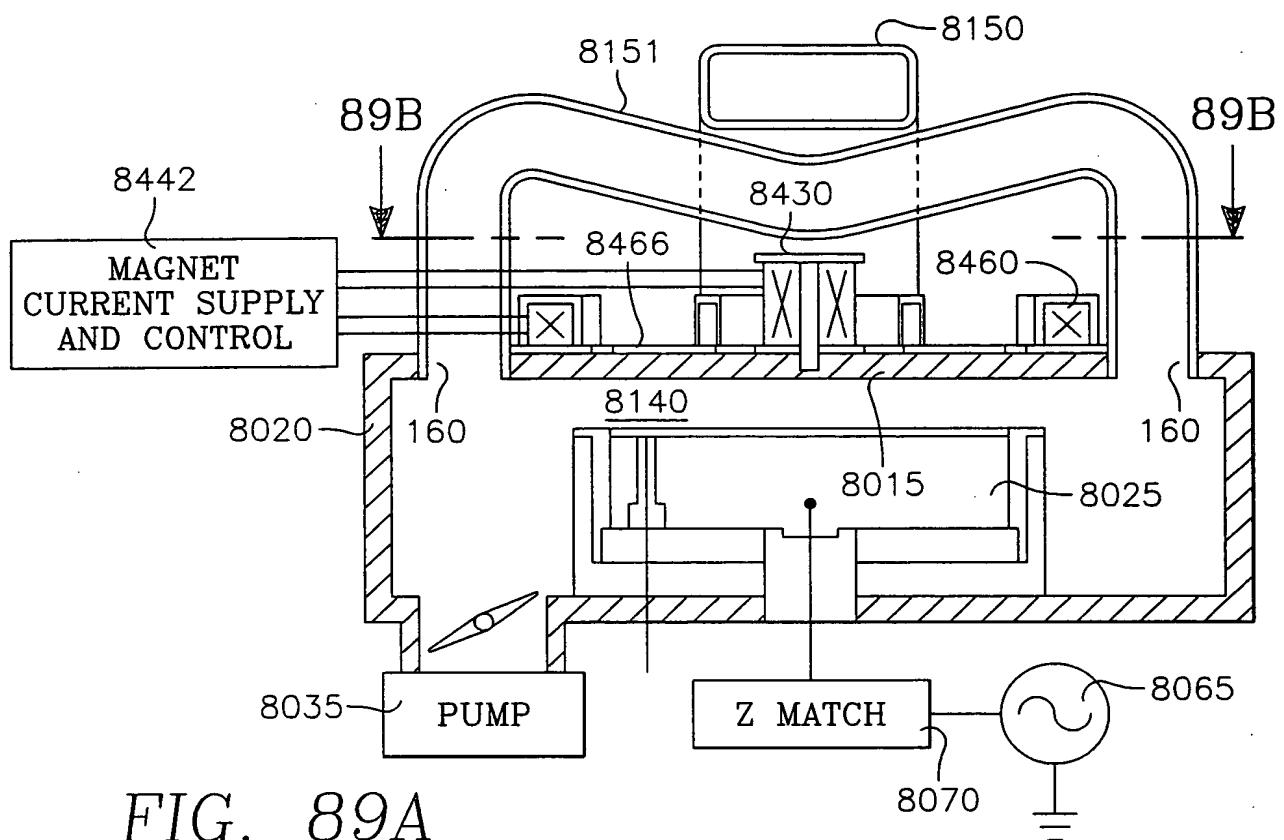


FIG. 89A

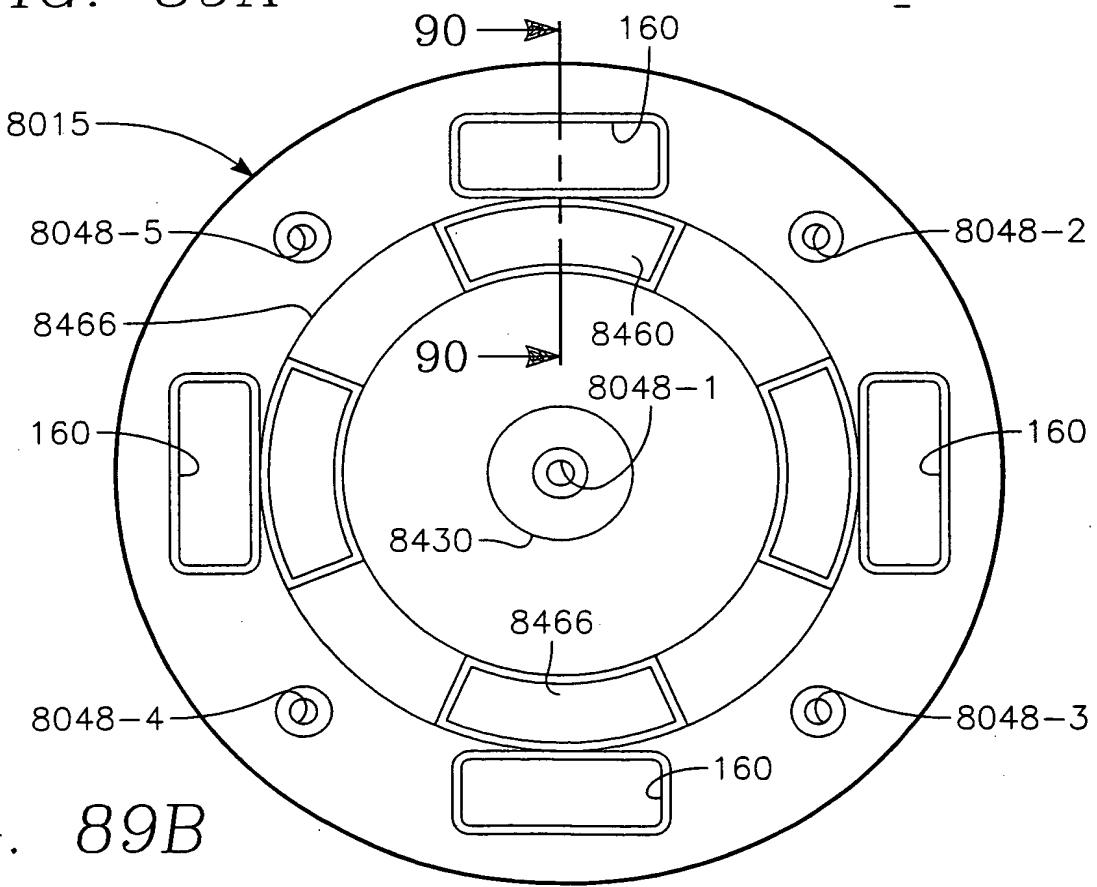


FIG. 89B

72/85

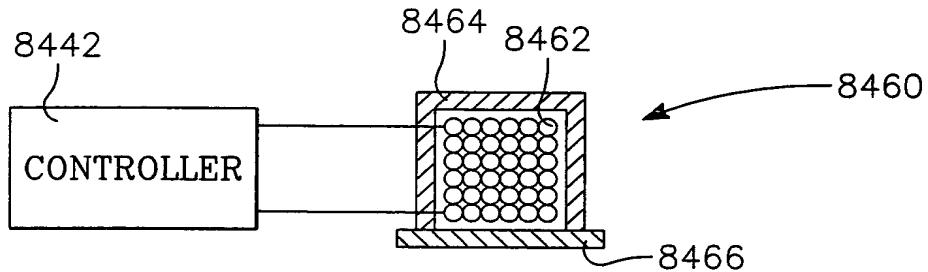


FIG. 90A

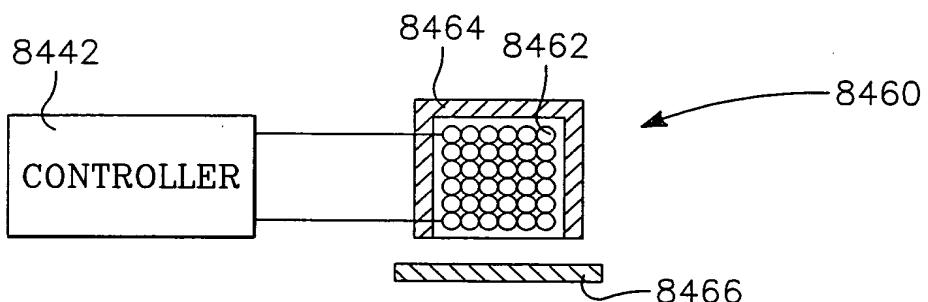


FIG. 90B

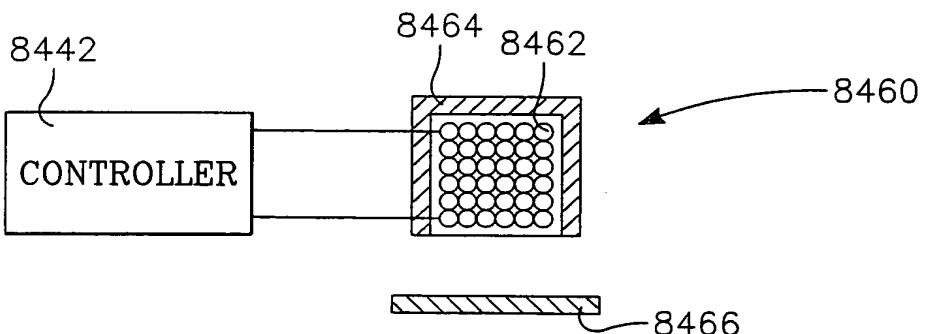


FIG. 90C

73/85

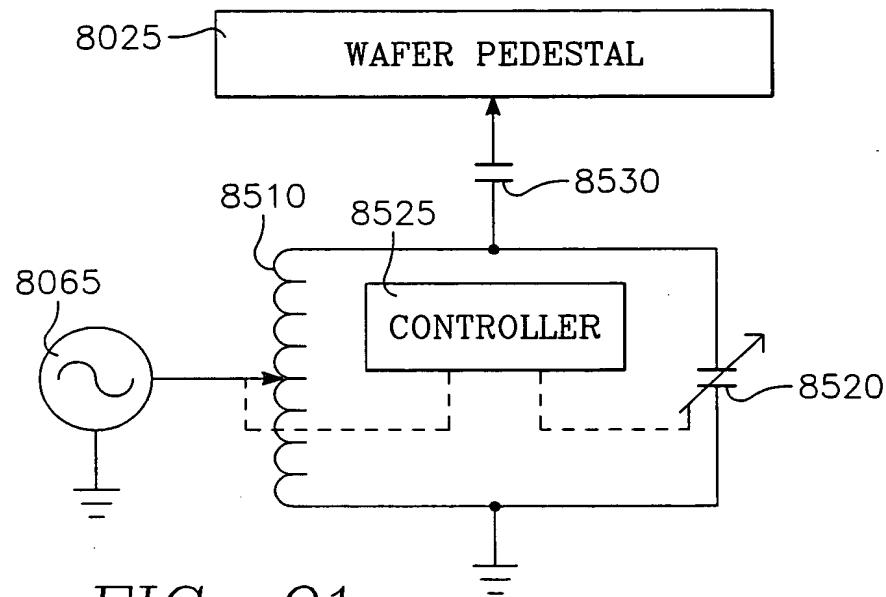


FIG. 91

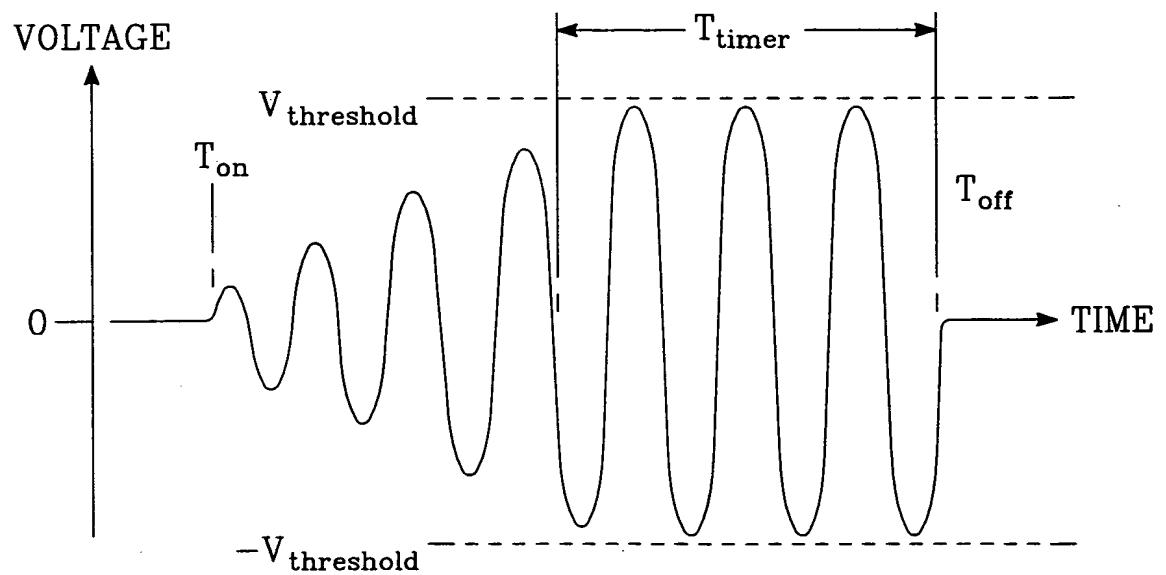


FIG. 92

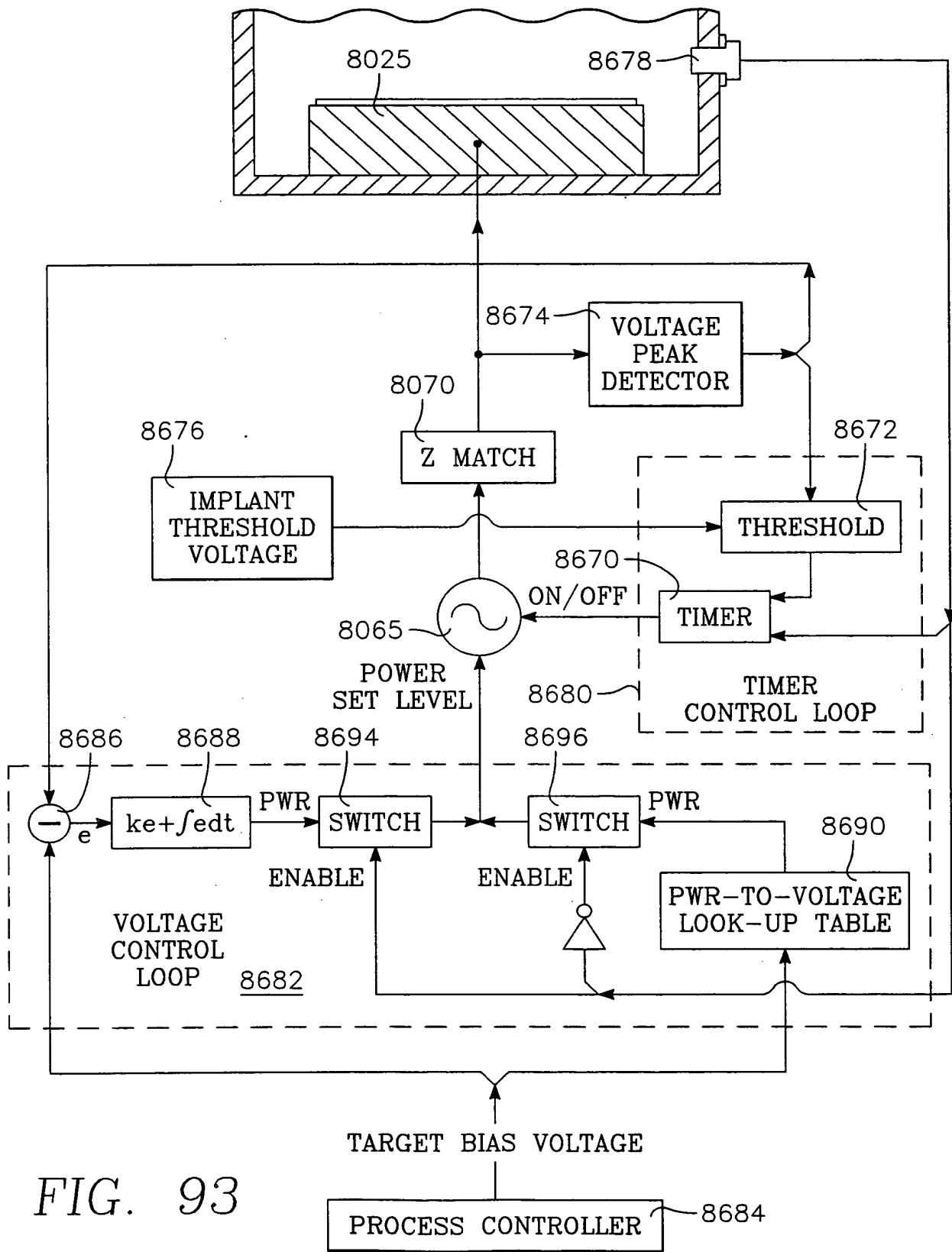


FIG. 93

75/85

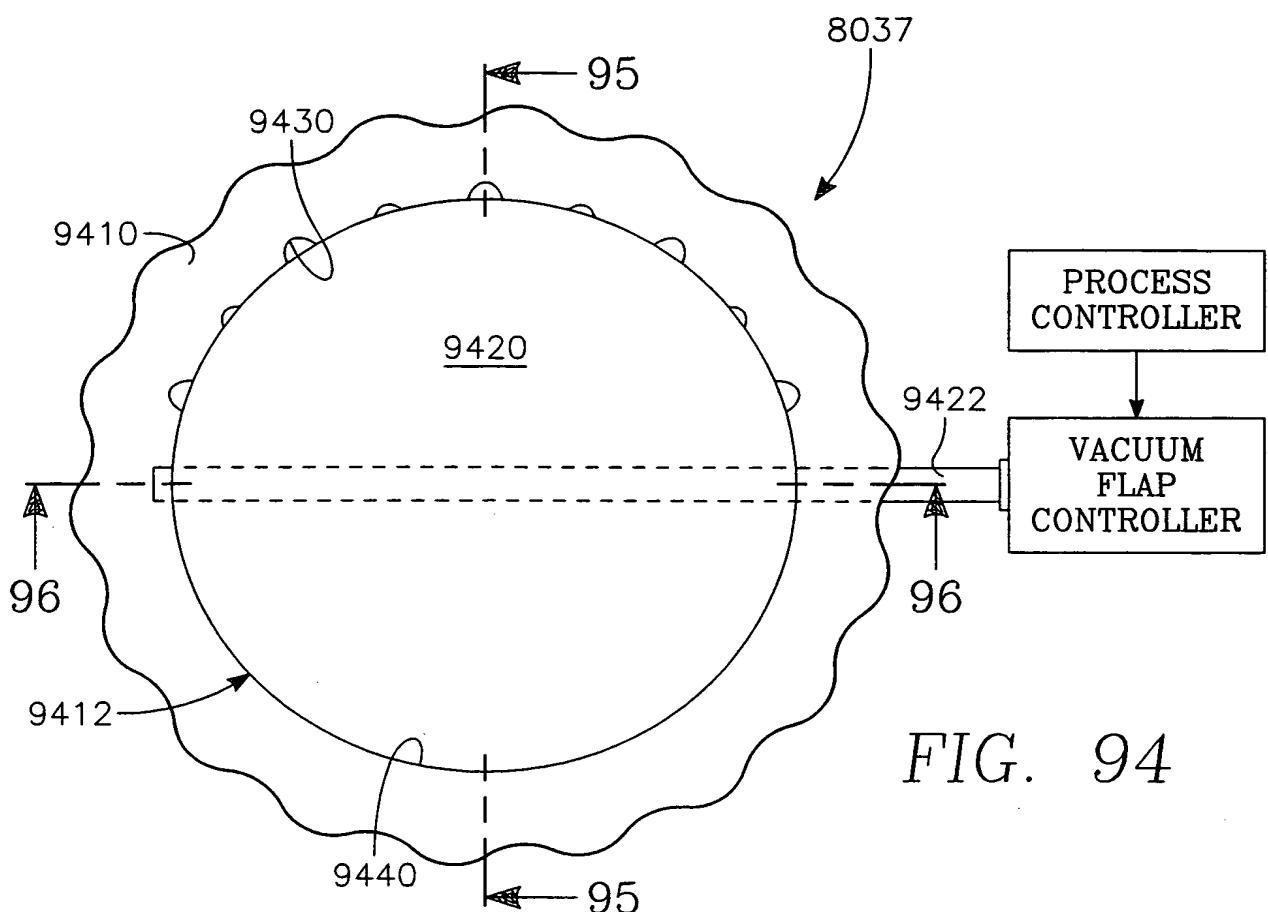


FIG. 94

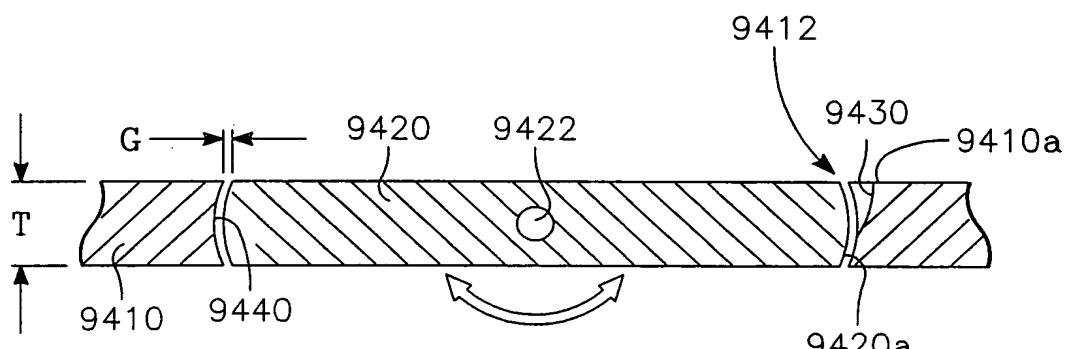


FIG. 95

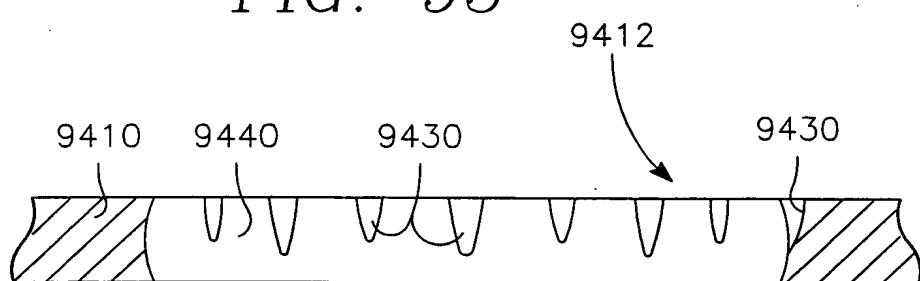


FIG. 96

76/85

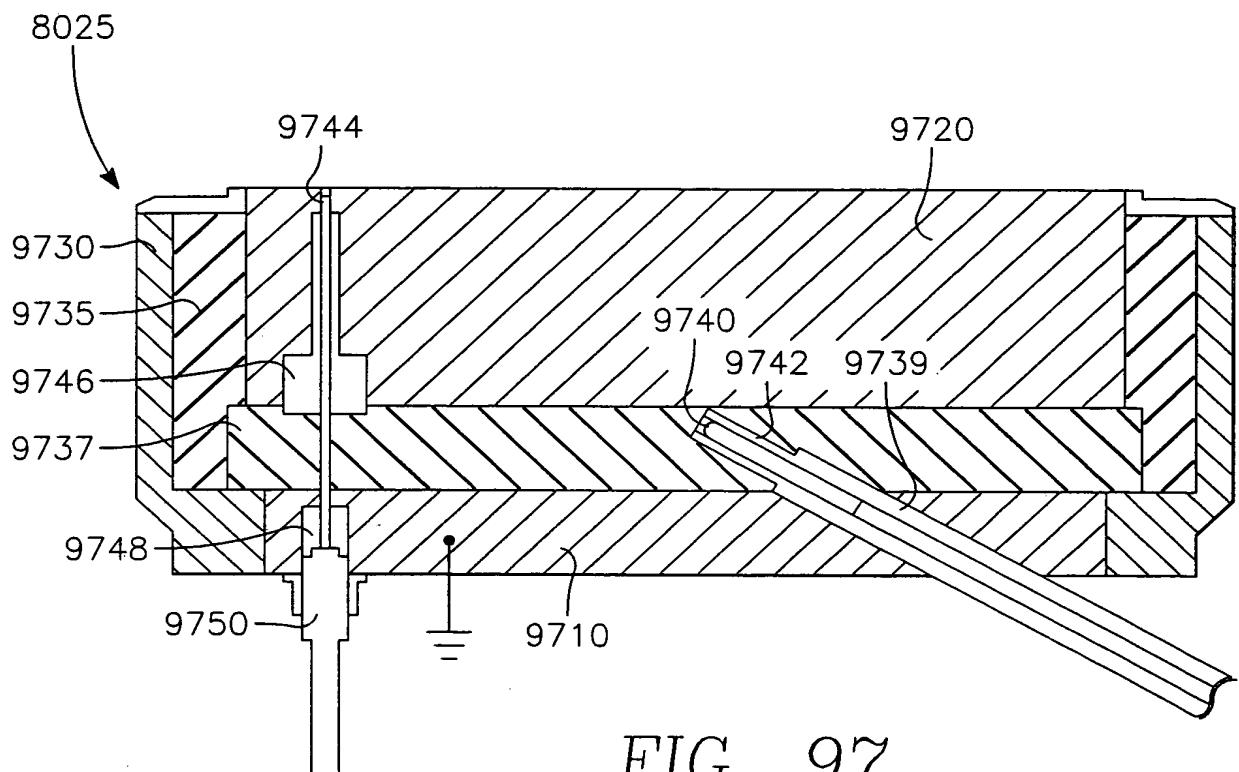


FIG. 97

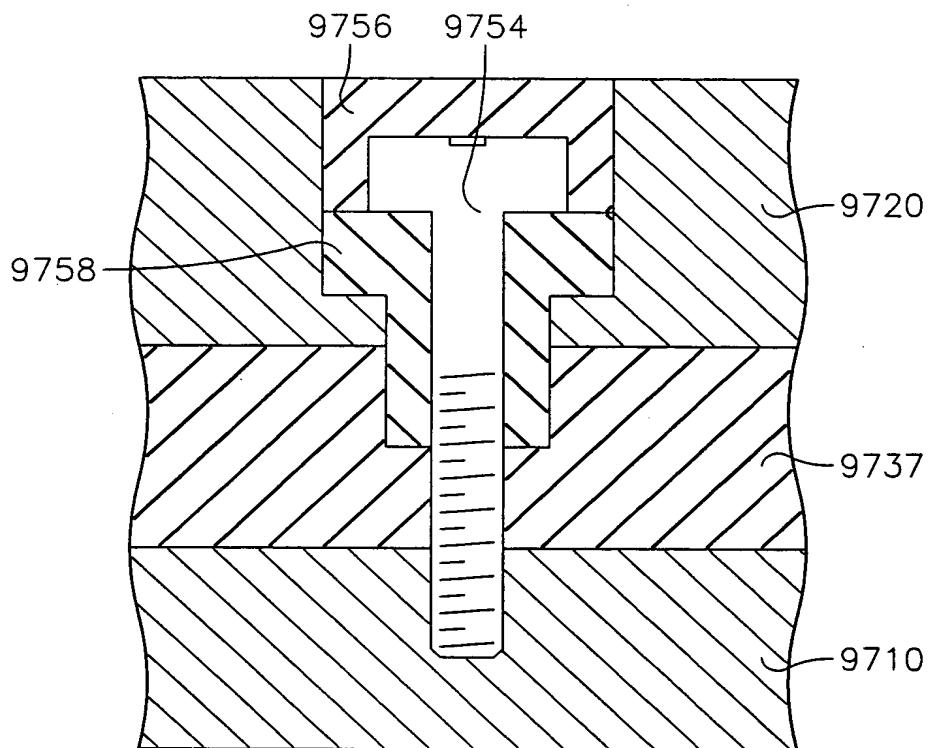


FIG. 98

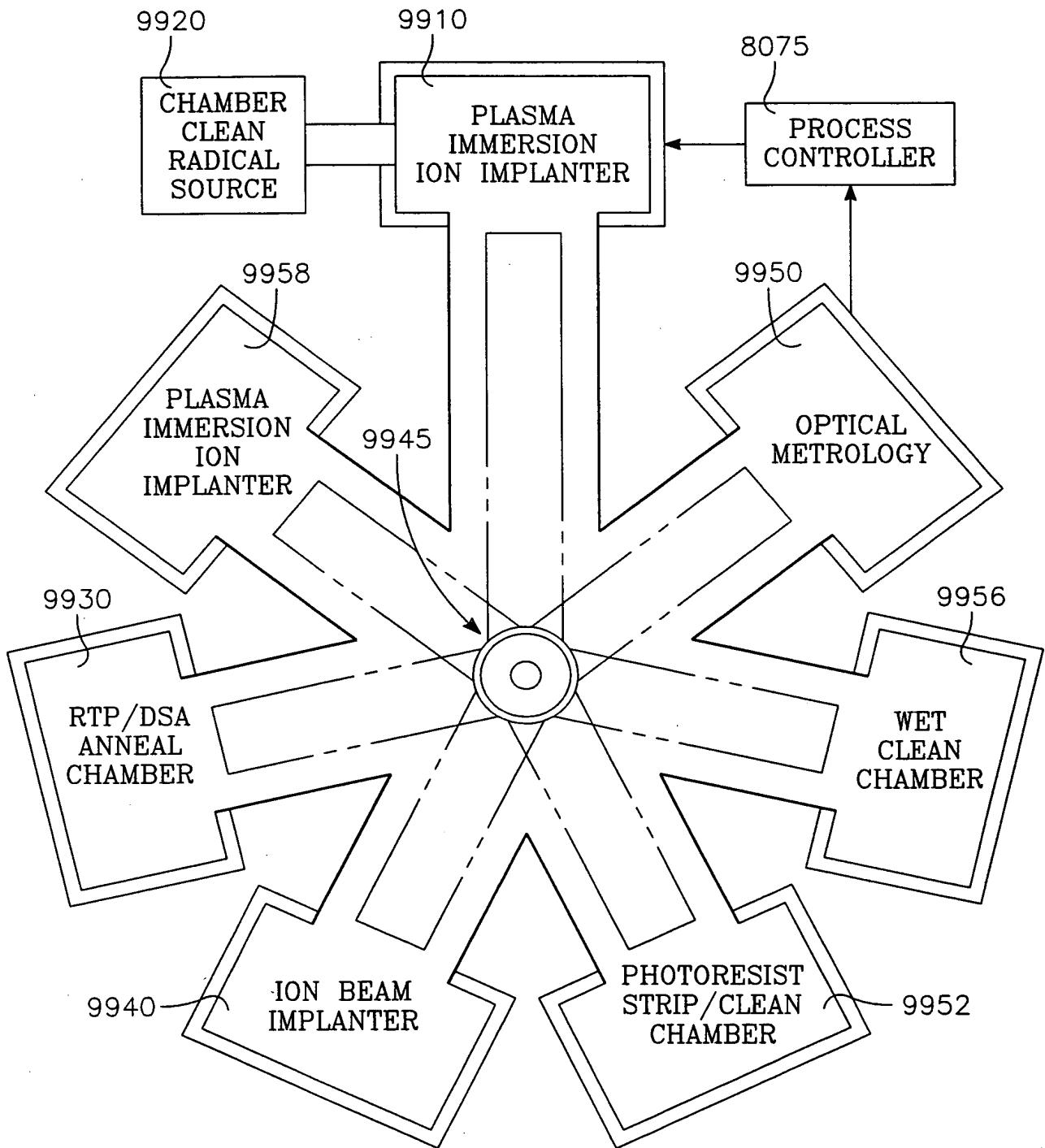


FIG. 99

78/85

ELECTRON  
DENSITY

$\eta_e$

INDUCTIVE  
SOURCE

TORROIDAL  
SOURCE

FIG. 100

$P_{TH}$  POWER  $P_{ICP}$

FREE  
FLUORINE  
DENSITY

ICP

TORROIDAL  
SOURCE

FIG. 101

$P_{TH}$  POWER  $P_{DIS}$

PLASMA  
POTENTIAL

$|V_p|$

CAPACITIVE

TORROIDAL  
SOURCE

FIG. 102

$P_{TH}$

POWER

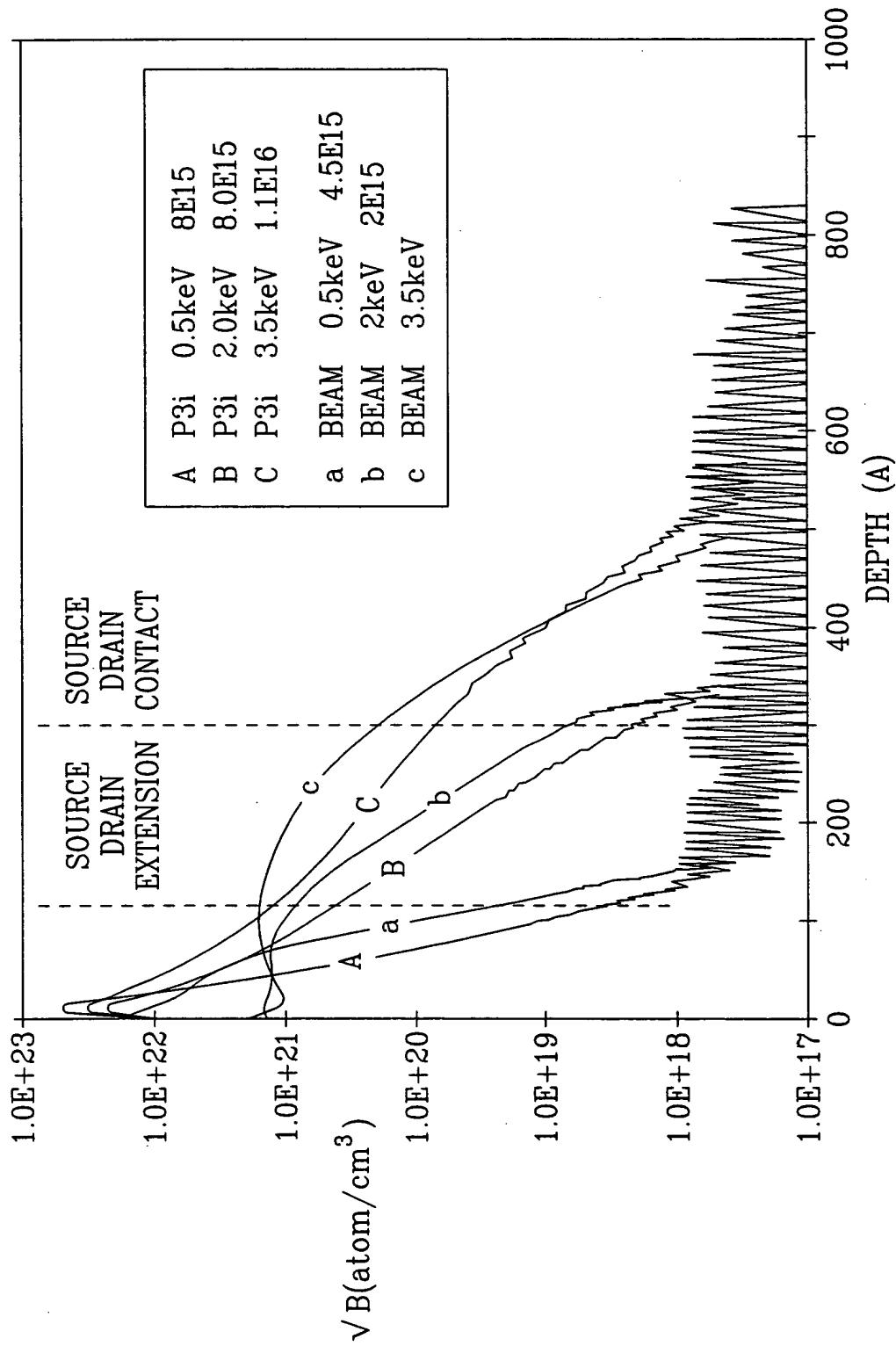


FIG. 103

80/85

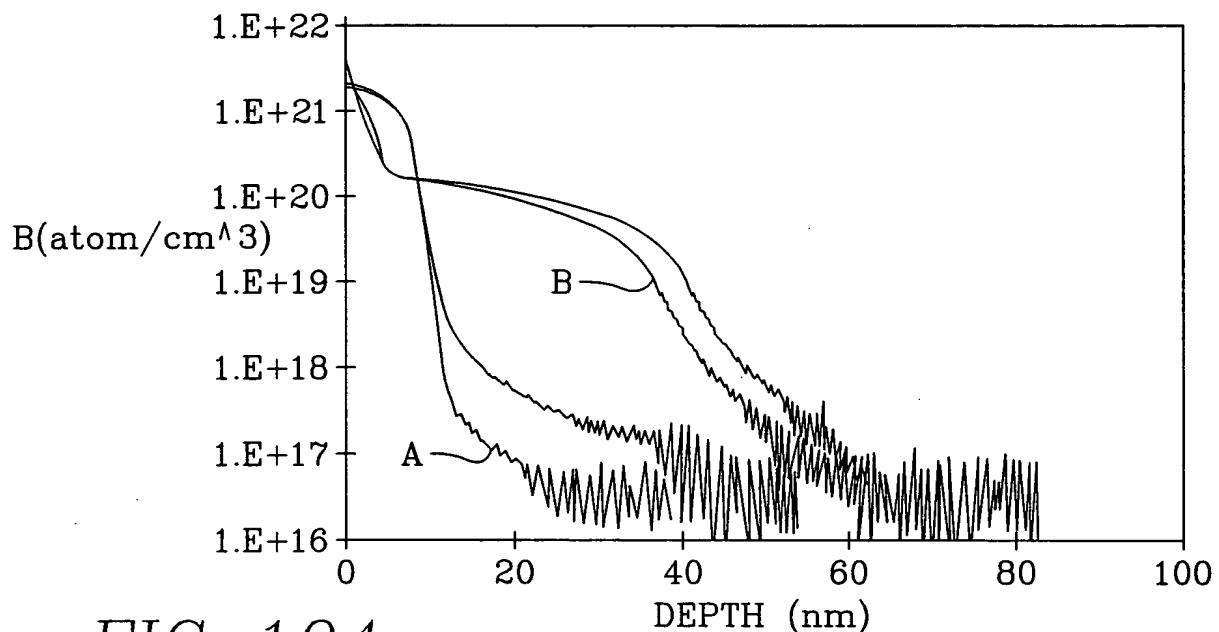


FIG 104

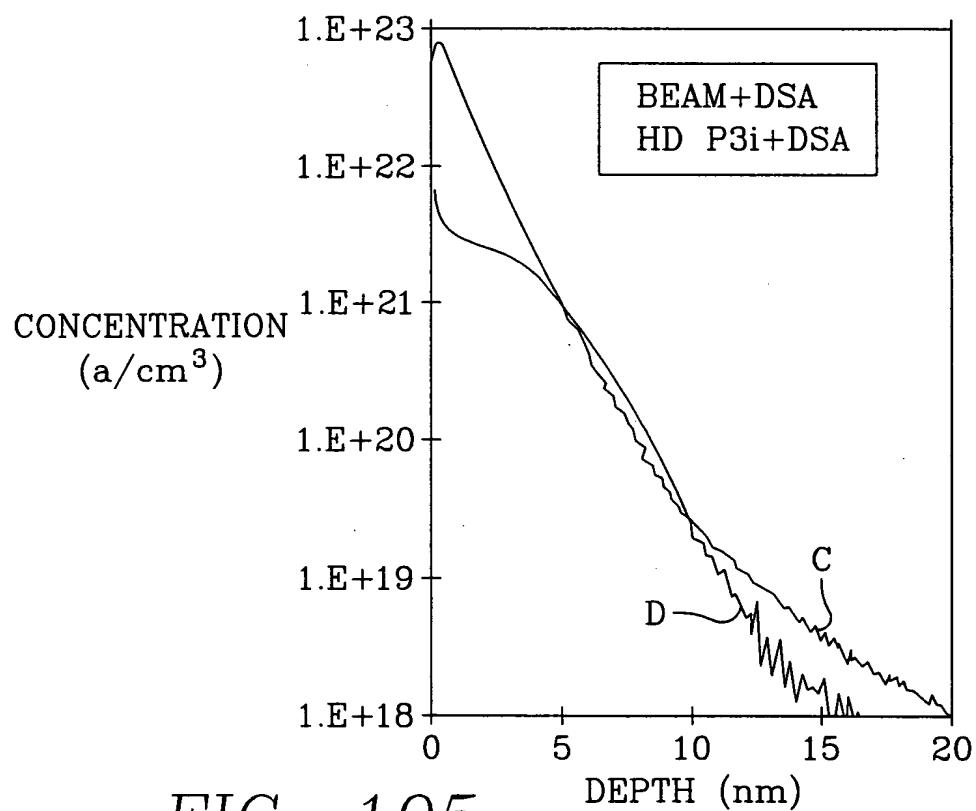


FIG. 105

81/85

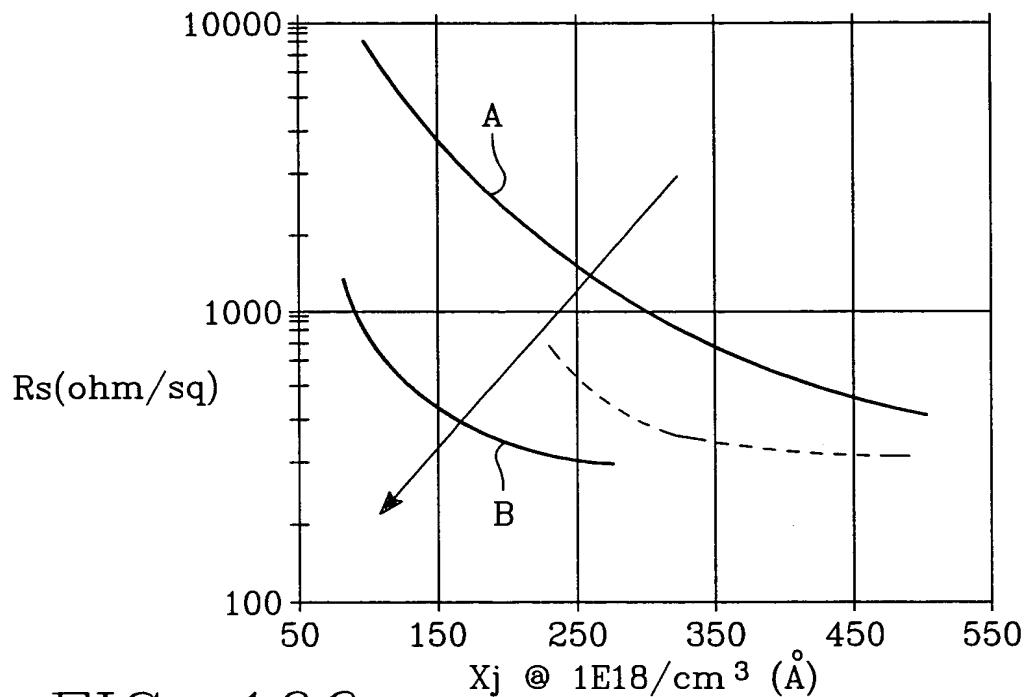


FIG. 106

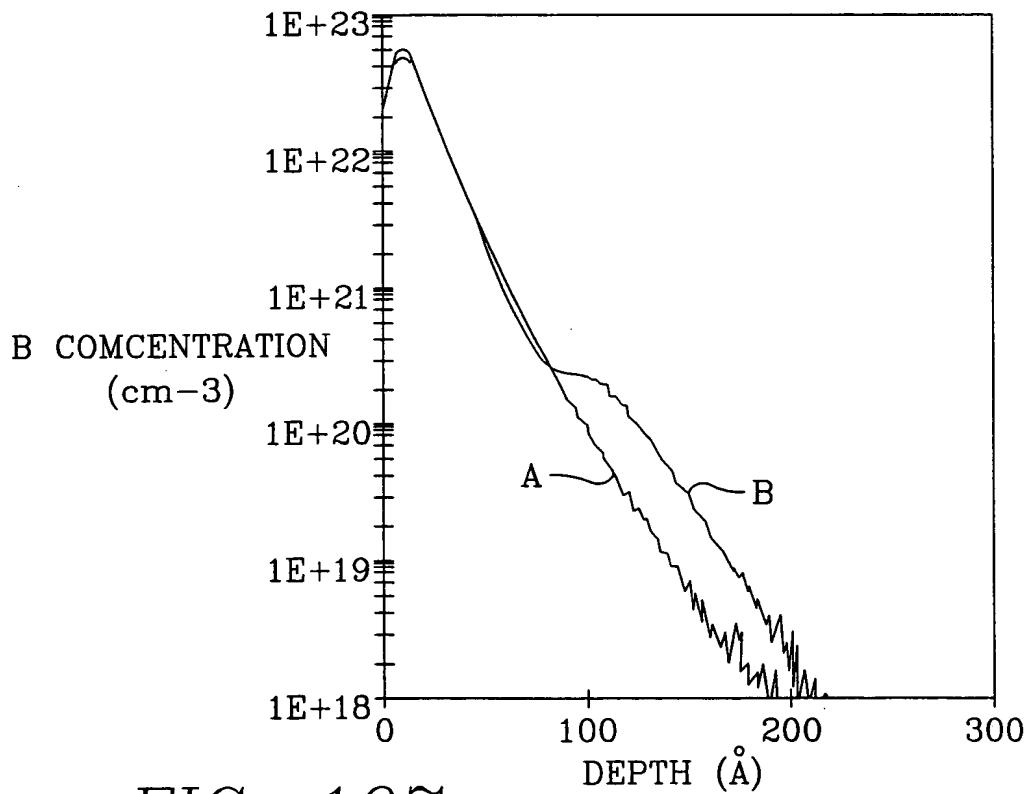


FIG. 107

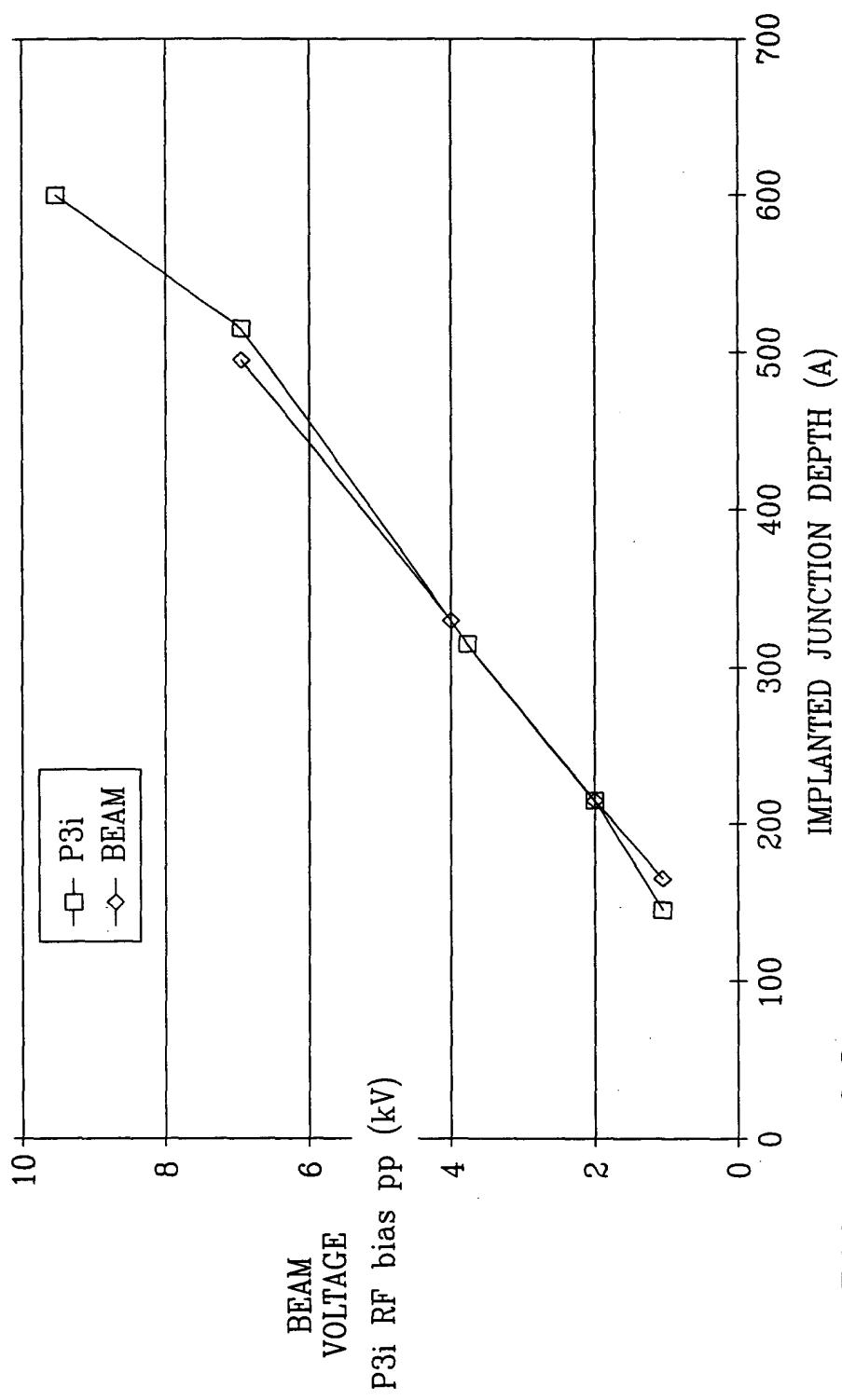


FIG. 108

83/85

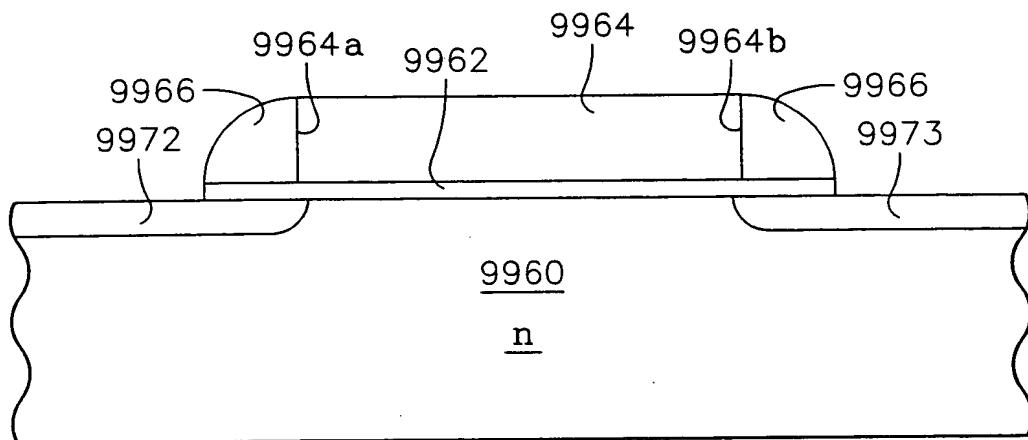


FIG. 109

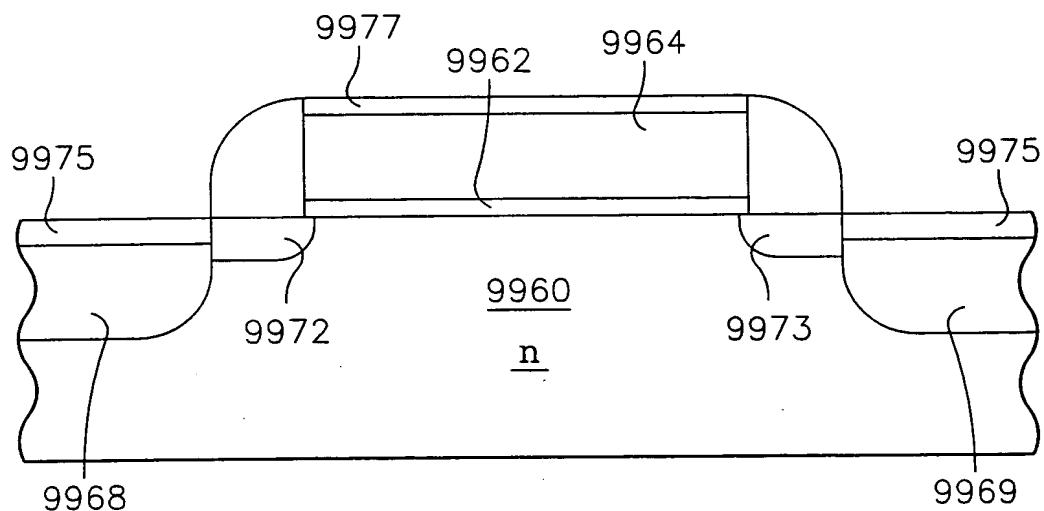


FIG. 110

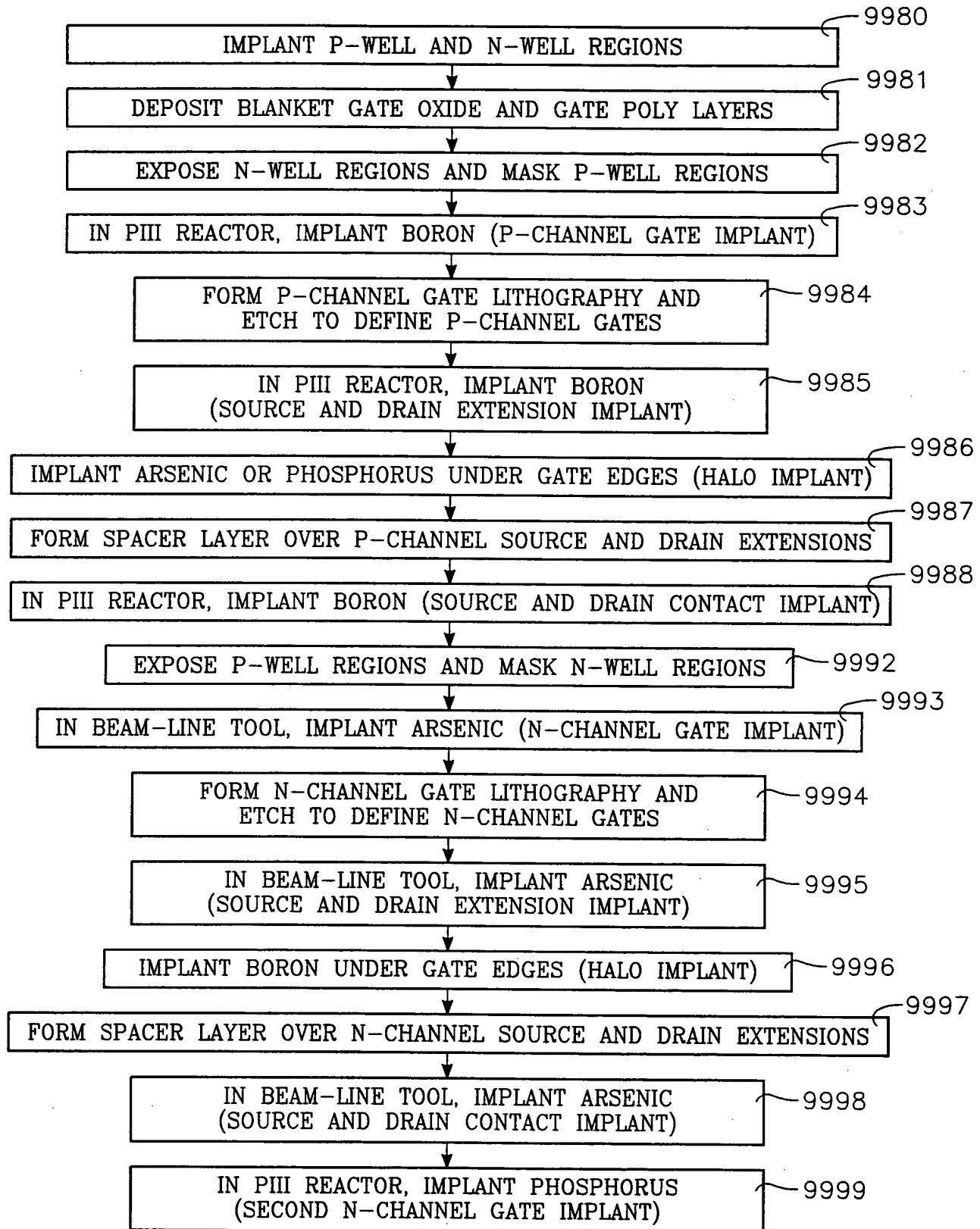


FIG. 111

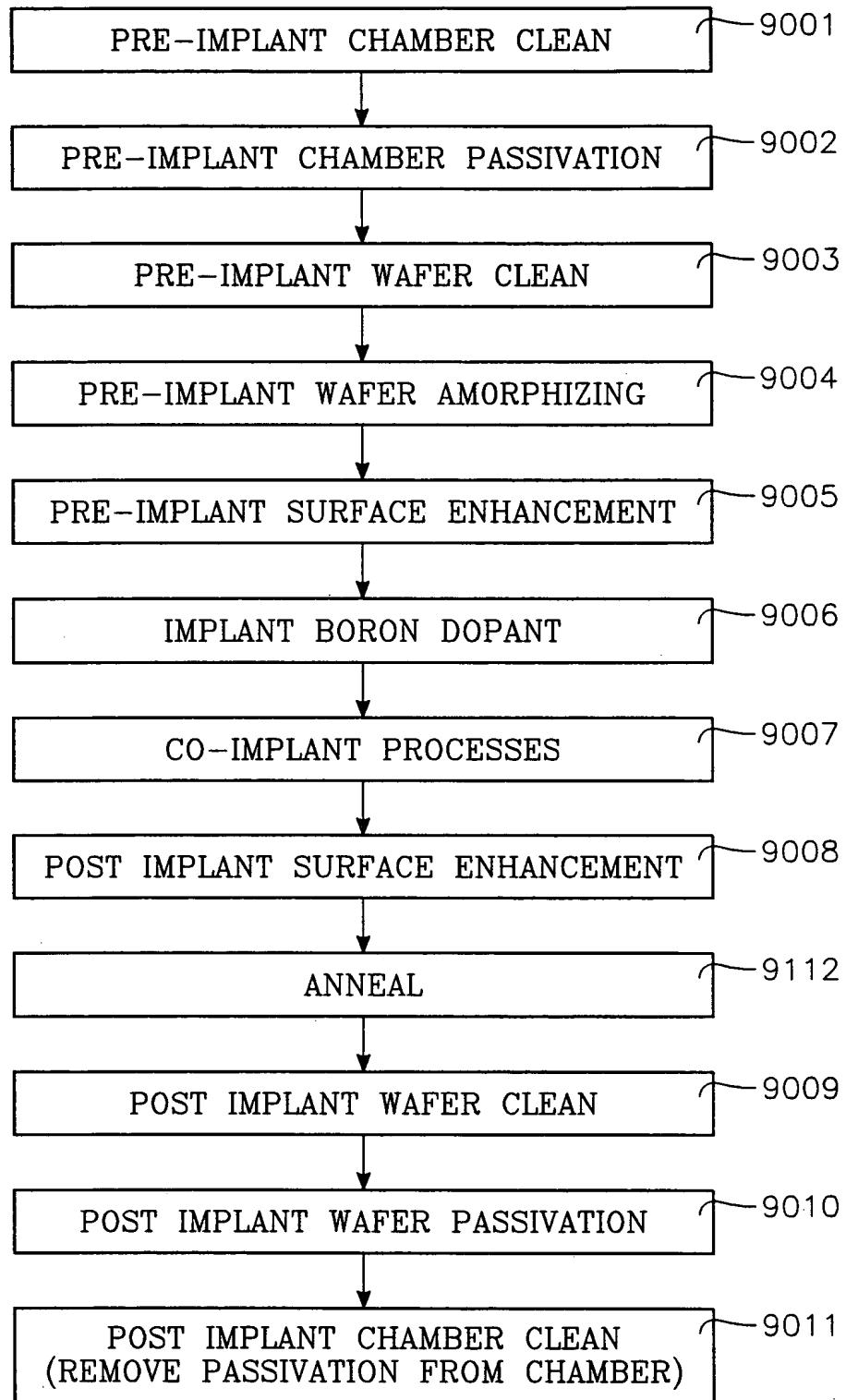


FIG. 112